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Belden Electronics Division

Master Catalog

2003

**INDUSTRIAL  
RESIDENTIAL  
BROADCAST  
NETWORKING  
SOUND, SECURITY & ALARM**

**ELECTRONIC WIRE & CABLE  
FIBER OPTIC CABLE**

Master Catalog



1-800-527-0010





## Welcome To The Most Complete Resource In The Industry For Reliable Electronic Wire And Cable:

The Belden® Master Catalog is a uniquely distinctive publication. An unparalleled resource for electronic wire and cable solutions, the catalog represents Belden's commitment to providing you with the most reliable electronic wire and cable products, whatever the application or need.

## The Industry's Premier Source Of Information For Today's Designers And Specifiers.

The catalog, however, is much more than a listing of products. It is also the industry's premier source of information for today's designers and specifiers. We believe you'll find our Master Catalog to be an essential tool for solving a wide range of application problems.

### Choose From More Than 3,000 Wire And Cable Products

Belden has one of the largest product offerings in the markets we serve. Our selection of more than 3,000 wire and cable products is devoted to applications such as:

- > Home automation systems and networks
- > Computer networking and equipment for commercial organizations
- > Alarm, security and communications

- > Industrial networking, instrumentation and control systems
- > Broadcast, entertainment and broadband markets
- > Wireless communications
- > Electrical equipment, including motors and apparatus

Every one of our products is the result of foresight and leadership, and a proactive response to both emerging technologies and the changing needs of our customers.

### Our Commitment To World-Class Manufacturing Is Unrivaled

Our world-class manufacturing standards are at the very heart of what distinguishes us from our competitors. All Belden products are manufactured using the industry's highest standards of quality, with the most advanced equipment, systems, controls and processes.

### Quality Management System Further Ensures Product Reliability

To assure Belden products meet your requirements, we use a formal, documented Quality Management System based on our Quality Policy and the ISO 9000 family of international standards. Belden Electronics was the first UL Registered Wire and Cable Company to receive registration to ISO 9001:2002. Our ISO certification is a confirmation of Belden's pledge to total quality and to continual improvement through our company's quality processes.

What this all adds up to is an unceasing dedication to reliability, which is at the root of Belden's aggressive, continual search for ways to meet the often complicated needs of our customers.



## Belden® Quality

### Setting Reliability Standards While Continuing To Raise The Bar

Belden's commitment to quality begins even before our cable products leave the product development phase. Not only do we design products to achieve a given level of performance, we also ensure that these products can be manufactured in a way that makes *Installable Performance™* possible and consistent. Here's a look at how we do it:



### Design For Manufacturability

Delivering a superior product means being sure you can make a superior product, day after day. Design for Manufacturability (DFM) seeks to identify and account for the challenges inherent in any manufacturing process and address them up front. It takes into account every aspect of manufacturing: materials, machines, operations, environmental factors and more.

The purpose of DFM is to design products that are robust enough to stand up to the challenges of manufacturing to yield consistent, superior product quality. Unlike sorting or inspection, which focuses solely on an already produced product, DFM is focused on the entire manufacturing process and how it can be monitored, controlled and adjusted to achieve our quality goals.

The DFM Process involves a wide range of personnel, from production, engineering, quality, and marketing, bringing together the entire team in a way that shortens the product development cycle and allows us to make better products with remarkable speed. But the real benefit to our customers is that our products achieve high performance standards that are consistent and measurable.

### Monitoring And Maintaining Quality

Before we release any new products for production, all critical characteristics of Belden products are targeted to meet a capability index of  $Cpk \geq 1.33$ , which corresponds to a 99.997% passing rate. A Cpk is an index that quantifies the capability of a product's design and manufacturing process. The Cpk values are determined through capability studies, which represent the final product design and manufacturing set-ups. This includes statistically valid run times, footage, and sampling methods. The result is a Cpk value that corresponds to a predicted defect rate for the product.

Belden's Cpk testing methods are actually more reliable than simple "pass/fail" testing on cable as it comes off the manufacturing line. Rather than merely testing batches of cable, Cpk testing allows Belden to monitor and control the long-term quality and performance of the cable we produce. It gives us an accurate measurement of quality over time, so that we can adjust our manufacturing processes in ways that ensure the production of high performance cable, day in and day out.

### Our Sigma Initiative

A number of years ago, in an effort to evaluate the quality of our products, Belden adopted the "Sigma" concept. In technical terms, Sigma, also known as standard deviation from the mean, measures the variability in a process. At Belden, Sigma is a quality term that allows us to measure the effectiveness of our process in producing defect-free design, product, delivery, and service — with a defect being *anything* that results in customer dissatisfaction.

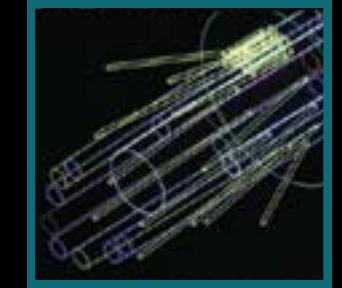
We derive our Sigma level from customer feedback which we convert into Sigma parts per million: The amount of cable footage identified by our customers as not meeting their expectations x 1 million total footage shipped.

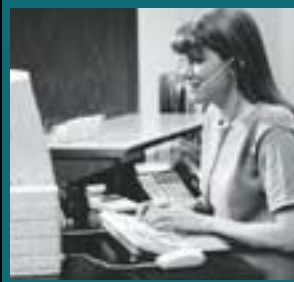
As a company, Belden has set a 5-sigma goal, which translates to 233 defective parts per million. It's a goal we have not only achieved, but also exceeded, year after year. We're very proud of this fact because most companies operate at 3-to-4 sigma quality levels.

In the end, quality at Belden is not just a word we toss around because it sounds good. Quality is a commitment. We have built our name and reputation on quality, and our ongoing dedication to that principle will allow us to continually set new standards for reliability, and raise the bar for quality in the wire and cable products industry.

If you'd like to learn more about our quality commitment, request a copy of our Quality Brochure from your local Belden representative.

**Specify Belden...For The Most Reliable Cable Available.**





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Visit our Web Site at [www.belden.com](http://www.belden.com)

Our Web site is a valuable online resource for Belden wire and cable products, services, support, solutions, and purchasing information. Point your browser to [www.belden.com](http://www.belden.com) to find out more.

## Contact One of Our Sales Representatives for Assistance

Call 1-800-BELDEN-1 in the U.S. or 1-765-983-5200 outside the U.S. You can also fax us at 1-765-983-5656 or email us at [techsupport@belden.com](mailto:techsupport@belden.com).

## To Place an Order

For many of the products in the catalog, you will find everything you need in this catalog to place an order. Should you need assistance, please contact your Belden sales representative. A complete list of all of our sales offices can be found on the back cover of this catalog or at [www.belden.com](http://www.belden.com).

## How to Use the Belden® Master Catalog

### If You're Not Sure Of What You Need...

#### Select By Cable Type or Application

Use the Section Index below or look at the more detailed Table of Contents pages found at the beginning of *each* section to find your cable type or application.

#### Select By Keyword

Reference the *Table of Contents* section on the following pages for an alphabetical listing of product keywords.

#### Consult the Cable Finder Guide

If you know the gage size, shielding type, and/or number of conductors needed for your application, you can locate a part number and corresponding catalog page number for all matching multi-conductor and paired cable products in the *Cable Finder Guide* (Section 2).

### If You Know The Belden Part Number...

#### Consult the Index in the Back of the Catalog

In the *Part Number Index* (Section 17), you'll find a numerical listing of Belden part numbers. This comprehensive Index lists every product featured in the *Belden Master Catalog*.

## Section Index

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Please refer to "Terms of Use of Master Catalog" on page 16.30.

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| 2697      | 300V 80°C  | 7.9                                                                                                                                                                                                           |
| 2717      | 80°C       | 5.46                                                                                                                                                                                                          |
| 2785      | 300V 80°C  | 4.14                                                                                                                                                                                                          |
| 2884      | 300V 105°C | 7.7                                                                                                                                                                                                           |
| 2919      | 30V 80°C   | 4.16<br>4.18<br>5.14–5.15<br>5.27–5.28<br>5.30–5.31<br>5.33, 5.37<br>5.40<br>5.42<br>8.5–8.6<br>11.18<br>12.24<br>12.55<br>15.27                                                                              |
| 2960      | 30V 60°C   | 5.26                                                                                                                                                                                                          |
| 3044      | 300V 90°C  | 3.18                                                                                                                                                                                                          |
| 3046      | 600V 90°C  | 3.18                                                                                                                                                                                                          |
| 3048      | 600V 90°C  | 3.18                                                                                                                                                                                                          |

### UL Cable Finder Chart

| Style No.               | Volt/Temp   |                    |
|-------------------------|-------------|--------------------|
| 3049                    | 600V 90°C   | 3.18               |
| 3069                    | 600V 150°C  | 3.21               |
| 3070                    | 600V 150°C  | 3.21               |
| 3071                    | 600V 200°C  | 3.20               |
| 3074                    | 600V 200°C  | 3.20               |
| 3075                    | 600V 200°C  | 3.20               |
| 3101                    | 600V 150°C  | 3.21               |
| 3123                    | 600V 150°C  | 3.20               |
| 3125                    | 600V 200°C  | 3.20               |
| 3126                    | 600V 200°C  | 3.20               |
| 3135                    | 600V 200°C  | 3.19               |
| 3173                    | 600V 125°C  | 3.14               |
| 3190                    | 300V 105°C  | 3.17               |
| 3191                    | 600V 105°C  | 3.16               |
| 3192                    | 600V 105°C  | 3.16               |
| 3193                    | 600V 105°C  | 3.16               |
| 3195                    | 600V 125°C  | 3.14               |
| 3196                    | 600V 125°C  | 3.14               |
| 3199                    | 300V 105°C  | 3.14               |
| 3212                    | 600V 150°C  | 3.19               |
| 3213                    | 600V 150°C  | 3.19               |
| 3214                    | 600V 150°C  | 3.19               |
| 3239                    | 80°C        | 3.22               |
| 3239                    | 600V 80°C   | 3.22               |
| 3321                    | 600V 150°C  | 3.15               |
| 3340                    | 600V 125°C  | 3.12               |
| 3374                    | 600V 150°C  | 3.12               |
| 3436                    | 600V 150°C  | 3.15               |
| 3484                    | 600V 125°C  | 3.13               |
| 3499                    | 7500V 150°C | 3.13               |
| 10245                   | 30V 105°C   | 6.68–6.70<br>12.41 |
| 20006                   | 30V 60°C    | 12.63              |
| 20063                   | 300V 80°C   | 6.80               |
| 20081                   | 300V 105°C  | 7.11–7.12          |
| 20197                   | 30V 60°C    | 8.3, 8.10          |
| 20233                   | 300V 80°C   | 15.25              |
| 20253                   | 600V 80°C   | 5.22<br>12.16      |
| 20468                   | 150V 150°C  | 7.8, 7.10          |
| SIS                     | 600V 90°C   | 3.15               |
| <b>Portable Cordage</b> |             |                    |
| HPN                     | 300V 90°C   | 9.3                |
| S                       | 600V 60°C   | 9.6                |
| SJ                      | 300V 60°C   | 9.4, 9.6           |
| SJO                     | 300V 90°C   | 9.4, 9.7           |
| SJT                     | 300V 60°C   | 9.7                |
| SJT                     | 300V 75°C   | 9.7                |
| SJTOW                   | 300V 105°C  | 9.4, 9.8           |
| SO                      | 600V 60°C   | 9.10               |
| SO                      | 300V 90°C   | 9.4<br>9.6<br>9.9  |
| SP-1                    | 300V 60°C   | 9.3                |
| SPT-1                   | 300V 60°C   | 9.3                |
| SPT-2                   | 300V 60°C   | 9.3                |
| STOW                    | 600V 105°C  | 9.5, 9.8           |
| SV                      | 300V 60°C   | 9.5, 9.8           |
| SVT                     | 300V 60°C   | 9.5<br>9.8–9.9     |



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# Cable Finder Guide

The Belden® Cable Finder Guide is a tool for the user of the Belden Master Catalog. It is designed to give quick access and page reference to current Belden product offerings by AWG size, shielding type and number of conductors.

Use the Cable Finder to locate where the specific cable you seek is detailed in the body of the catalog.

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# Multi-conductor and Paired Cable

## Less than 25 Conductors

| No. of Conductors         | Unshielded                                                |                                                | Spiral Shield          |                      | Braid Shield                            |                                                        | Overall Beldfoil®                                                          |                                                                                                    | Overall Foil/Braid                                                      |                                                                               | Individual Beldfoil                                |                                                                                           | Individual Braid |       |
|---------------------------|-----------------------------------------------------------|------------------------------------------------|------------------------|----------------------|-----------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------|------------------|-------|
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| <b>25 AWG and smaller</b> |                                                           |                                                |                        |                      |                                         |                                                        |                                                                            |                                                                                                    |                                                                         |                                                                               |                                                    |                                                                                           |                  |       |
| 1                         | —                                                         | —                                              | —                      | —                    | 83303                                   | 4.30                                                   | —                                                                          | —                                                                                                  | —                                                                       | —                                                                             | —                                                  | —                                                                                         | —                | —     |
| 2                         | —                                                         | —                                              | 9454<br>8416           | 12.38<br>12.38       | 83317                                   | 4.30                                                   | 9180<br>9271                                                               | 12.28<br>12.56<br>6.84                                                                             | —                                                                       | —                                                                             | —                                                  | —                                                                                         | —                | —     |
| 3                         | —                                                         | —                                              | 8791                   | 4.14                 | 83332<br>8643                           | 4.30<br>4.14                                           | —                                                                          | —                                                                                                  | —                                                                       | —                                                                             | —                                                  | —                                                                                         | —                | —     |
| 4                         | —                                                         | —                                              | —                      | —                    | 83347<br>1804A<br>1172A                 | 4.30<br>12.9<br>12.9                                   | 1211A*<br>8132FO                                                           | 4.21<br>5.14                                                                                       | 9804<br>8132                                                            | 5.26<br>5.27                                                                  | 1215A*<br>7891A*                                   | 11.21<br>12.29                                                                            | —                | —     |
| 6                         | —                                                         | —                                              | —                      | —                    | —                                       | —                                                      | 1212A*<br>8133FO                                                           | 4.21<br>5.14                                                                                       | 9791<br>9805<br>8133<br>1538A                                           | 4.16<br>5.26<br>5.27<br>11.22                                                 | —                                                  | —                                                                                         | —                | —     |
| 7                         | —                                                         | —                                              | —                      | —                    | —                                       | —                                                      | —                                                                          | —                                                                                                  | 1540A                                                                   | 11.22                                                                         | —                                                  | —                                                                                         | —                | —     |
| 8                         | —                                                         | —                                              | —                      | —                    | 7884A*                                  | 12.18                                                  | 1213A*<br>8134FO                                                           | 4.21<br>5.14                                                                                       | 9806<br>8134                                                            | 5.26<br>5.27                                                                  | 7890A*                                             | 12.29                                                                                     | —                | —     |
| 10                        | —                                                         | —                                              | —                      | —                    | —                                       | —                                                      | 8135FO                                                                     | 5.14                                                                                               | 9807<br>8135                                                            | 5.26<br>5.27                                                                  | —                                                  | —                                                                                         | —                | —     |
| 14                        | —                                                         | —                                              | —                      | —                    | —                                       | —                                                      | —                                                                          | —                                                                                                  | 9808                                                                    | 5.26                                                                          | 9868*                                              | 4.10                                                                                      | —                | —     |
| 16                        | —                                                         | —                                              | —                      | —                    | 7885A*                                  | 12.18                                                  | 1214A*<br>8138FO                                                           | 4.21<br>5.14                                                                                       | 8138                                                                    | 5.27                                                                          | 7880A*                                             | 12.29                                                                                     | —                | —     |
| 18                        | —                                                         | —                                              | —                      | —                    | —                                       | —                                                      | —                                                                          | —                                                                                                  | 9809                                                                    | 5.26                                                                          | —                                                  | —                                                                                         | —                | —     |
| 24                        | —                                                         | —                                              | —                      | —                    | —                                       | —                                                      | —                                                                          | —                                                                                                  | 9812                                                                    | 5.26                                                                          | 7892A*                                             | 12.29                                                                                     | —                | —     |
| <b>24 AWG</b>             |                                                           |                                                |                        |                      |                                         |                                                        |                                                                            |                                                                                                    |                                                                         |                                                                               |                                                    |                                                                                           |                  |       |
| 1                         | —                                                         | —                                              | —                      | —                    | 83304                                   | 4.30                                                   | —                                                                          | —                                                                                                  | —                                                                       | —                                                                             | —                                                  | —                                                                                         | —                | —     |
| 2                         | 8782                                                      | 12.33                                          | 9397<br>1812A<br>1813A | 12.5<br>12.5<br>12.6 | 83318<br>8413<br>9399<br>1800F<br>1901A | 4.30<br>12.5<br>12.5<br>12.5<br>12.27<br>12.6<br>12.10 | 9452<br>9501<br>82641<br>88641<br>1508A<br>1883A<br>8641<br>1800B<br>1801B | 12.6<br>5.11<br>12.10<br>5.13<br>12.10<br>5.13<br>5.16<br>12.10<br>5.16<br>12.10<br>14.17<br>12.28 | 9841<br>82841<br>89841<br>7200A<br>7205A<br>7206A                       | 5.28<br>5.28<br>5.52<br>5.28<br>5.52<br>15.38<br>15.38<br>15.38               | —                                                  | —                                                                                         | —                | —     |
| 3                         | —                                                         | —                                              | 9398                   | 12.8                 | 83333<br>8406                           | 4.30<br>12.8                                           | 9533                                                                       | 4.11                                                                                               | 9608<br>9925<br>83503                                                   | 4.17<br>4.18<br>4.25                                                          | —                                                  | —                                                                                         | —                | —     |
| 4                         | 9562*<br>1588A*<br>1588R*<br>1590A*<br>1227A1*<br>1243A2* | 5.4<br>11.9<br>11.9<br>11.10<br>11.13<br>11.13 | —                      | —                    | 83348<br>1192A                          | 4.30<br>12.9                                           | 9534<br>9502<br>82502<br>1419A<br>88102                                    | 4.11<br>5.11<br>5.13<br>5.49<br>5.15<br>5.50                                                       | 9609<br>9927<br>83504<br>9842<br>82842<br>8332<br>9829<br>8102<br>7201A | 4.17<br>4.18<br>4.25<br>5.28<br>5.28<br>5.52<br>5.29<br>5.30<br>5.31<br>15.38 | 9729<br>89729<br>82729<br>8162*<br>1509C*<br>1802B | 5.35<br>12.30<br>12.31<br>5.36<br>5.53<br>12.31<br>5.36<br>5.53<br>5.44<br>12.20<br>12.28 | 1902A            | 12.21 |
| 5                         | —                                                         | —                                              | —                      | —                    | —                                       | —                                                      | 9535                                                                       | 4.11                                                                                               | 9610<br>9929                                                            | 4.17<br>4.18                                                                  | —                                                  | —                                                                                         | —                | —     |

\*Armored

▼ Solid conductors

• Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

♦ Quad



## Multi-conductor and Paired Cable

Less than 25 Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |       | Overall Foil/Braid |       | Individual Beldfoil |       | Individual Braid |       |
|---------------------------|------------|-------|---------------|------|--------------|------|-------------------|-------|--------------------|-------|---------------------|-------|------------------|-------|
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| <b>24 AWG (continued)</b> |            |       |               |      |              |      |                   |       |                    |       |                     |       |                  |       |
| 6                         | —          | —     | —             | —    | —            | —    | 9536              | 4.11  | 9611               | 4.17  | 9730                | 12.30 | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 9503              | 5.11  | 9931               | 4.18  | —                   | 5.35  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 82503             | 5.13  | 83506              | 4.25  | 89730               | 12.31 | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | —                 | 5.49  | 9843               | 5.28  | —                   | 5.36  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 89503             | 5.13  | 9830               | 5.30  | —                   | 5.53  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | —                 | 5.49  | 8103               | 5.31  | 8163■               | 5.44  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 9680              | 5.15  | 1543A▼             | 11.22 | 9990                | 5.37  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 1420A             | 5.15  | 3120A              | 15.25 | —                   | —     | —                | —     |
| 7                         | —          | —     | —             | —    | —            | —    | 88103             | 5.50  | 7202A              | 15.38 | —                   | —     | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 9537              | 4.11  | 9612               | 4.17  | —                   | —     | —                | —     |
| 8                         | 1875GA     | 11.4  | —             | —    | —            | —    | 9538              | 4.11  | 9613               | 4.17  | 9728                | 5.35  | 1904A            | 12.21 |
|                           | 1875GB     | 11.4  | —             | —    | —            | —    | 9504              | 5.11  | 9933               | 4.18  | —                   | 12.30 | —                | —     |
|                           | 1700A▼     | 11.6  | —             | —    | —            | —    | 82504             | 5.13  | 9844               | 5.28  | 89728               | 5.36  | —                | —     |
|                           | 1700R▼     | 11.6  | —             | —    | —            | —    | —                 | 5.49  | 8334               | 5.29  | —                   | 5.53  | —                | —     |
|                           | —          | 14.10 | —             | —    | —            | —    | 89504             | 5.13  | 9831               | 5.30  | —                   | 12.31 | —                | —     |
|                           | 1701A▼     | 11.6  | —             | —    | —            | —    | —                 | 5.49  | 7203A              | 15.38 | 8164■               | 5.44  | —                | —     |
|                           | —          | 14.10 | —             | —    | —            | —    | 9681              | 5.15  | 7921A              | 15.6  | 1408R■              | 12.19 | —                | —     |
|                           | 1701LC▼    | 11.6  | —             | —    | —            | —    | 1421A             | 5.15  | 8104               | 5.31  | 1510C■              | 12.20 | —                | —     |
|                           | 1752A      | 11.7  | —             | —    | —            | —    | 88104             | 5.50  | —                  | —     | 1803F■              | 12.29 | —                | —     |
|                           | 1500A▼     | 11.8  | —             | —    | —            | —    | 1533R▼            | 11.14 | —                  | —     | —                   | —     | —                | —     |
|                           | 1500R▼     | 11.8  | —             | —    | —            | —    | 1533P▼            | 11.14 | —                  | —     | —                   | —     | —                | —     |
|                           | —          | 14.10 | —             | —    | —            | —    | 1624R▼            | 11.15 | —                  | —     | —                   | —     | —                | —     |
|                           | 1501A▼     | 11.8  | —             | —    | —            | —    | 1624P▼            | 11.15 | —                  | —     | —                   | —     | —                | —     |
|                           | 1583A▼     | 11.9  | —             | —    | —            | —    | 1633A▼            | 11.16 | —                  | —     | —                   | —     | —                | —     |
|                           | 1583R▼     | 11.9  | —             | —    | —            | —    | 7929A             | 15.6  | —                  | —     | —                   | —     | —                | —     |
|                           | —          | 14.11 | —             | —    | —            | —    | 7919A             | 15.8  | —                  | —     | —                   | —     | —                | —     |
|                           | 1583B▼     | 11.9  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 1594A▼     | 11.9  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 1585A▼     | 11.10 | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | —          | 14.10 | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 1585B▼     | 11.10 | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 1585LC▼    | 11.10 | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 1592A      | 11.11 | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 1229A1▼    | 11.13 | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 1245A2▼    | 11.13 | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 121700A*   | 15.6  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 7883A      | 11.5  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 11700A     | 15.7  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 121700A*   | 15.7  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 7924A      | 15.7  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 7928A      | 15.8  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 7918A      | 15.8  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 11872A     | 15.9  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 12872A*    | 15.9  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | 7923A      | 15.6  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
| 9                         | —          | —     | —             | —    | —            | —    | 9539              | 4.11  | 9614               | 4.17  | —                   | —     | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | 9934               | 4.18  | —                   | —     | —                | —     |
| 10                        | —          | —     | —             | —    | —            | —    | —                 | —     | 83509              | 4.25  | —                   | —     | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 9540              | 4.11  | 9615               | 4.17  | 8165■               | 5.44  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 9505              | 5.11  | 9935               | 4.18  | 89705               | 5.53  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 82505             | 5.13  | 8335               | 5.29  | —                   | 12.31 | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | —                 | 5.49  | 9832               | 5.30  | —                   | —     | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 89505             | 5.13  | 8105               | 5.31  | —                   | —     | —                | —     |
| 12                        | 9566▼      | 5.4   | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 1422A             | 5.15  | —                  | —     | —                   | —     | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 88105             | 5.50  | —                  | —     | —                   | —     | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 9506              | 5.12  | 83512              | 4.25  | 9731                | 5.35  | 1906A            | 12.21 |
|                           | —          | —     | —             | —    | —            | —    | 82506             | 5.13  | 8336               | 5.29  | —                   | 12.30 | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 9682              | 5.15  | 9839               | 5.30  | 89731               | 5.36  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 1423A             | 5.15  | 8106               | 5.31  | —                   | 5.53  | —                | —     |
|                           | —          | —     | —             | —    | —            | —    | 88106             | 5.50  | —                  | —     | —                   | 12.31 | —                | —     |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◀ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.



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# Multi-conductor and Paired Cable

## Less than 25 Conductors

| No. of Conductors         | Unshielded                                                                      |                                                                                                                   | Spiral Shield |               | Braid Shield                           |                                      | Overall Beldfoil®                                                       |                                                                                         | Overall Foil/Braid               |                                 | Individual Beldfoil                                 |                                                                   | Individual Braid |       |
|---------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------|---------------|----------------------------------------|--------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|------------------|-------|
|                           | Part No.                                                                        | Page                                                                                                              | Part No.      | Page          | Part No.                               | Page                                 | Part No.                                                                | Page                                                                                    | Part No.                         | Page                            | Part No.                                            | Page                                                              | Part No.         | Page  |
| <b>24 AWG (continued)</b> |                                                                                 |                                                                                                                   |               |               |                                        |                                      |                                                                         |                                                                                         |                                  |                                 |                                                     |                                                                   |                  |       |
| <b>12</b><br>(cont'd)     |                                                                                 |                                                                                                                   |               |               |                                        |                                      |                                                                         |                                                                                         |                                  |                                 | 9991<br>8166■<br>1409R■<br>1511C■                   | 5.37<br>5.44<br>12.19<br>12.20                                    |                  |       |
| <b>14</b>                 | —                                                                               | —                                                                                                                 | —             | —             | —                                      | —                                    | 9507                                                                    | 5.12                                                                                    | 8337<br>9833<br>8107             | 5.29<br>5.30<br>5.31            | 8167■<br>89757                                      | 5.44<br>5.53<br>12.31                                             | —                | —     |
| <b>15</b>                 | —                                                                               | —                                                                                                                 | —             | —             | —                                      | —                                    | 9541<br>88107                                                           | 4.11<br>5.50                                                                            | 9616<br>9936<br>83515            | 4.17<br>4.18<br>4.25            | —                                                   | —                                                                 | —                | —     |
| <b>16</b>                 | 1702A▼<br>1703A▼                                                                | 11.6<br>11.6                                                                                                      | —             | —             | —                                      | —                                    | 9508<br>1668A▼                                                          | 5.12<br>11.16                                                                           | 8108                             | 5.31                            | 8168■<br>1410R■<br>1512C■<br>1805F■                 | 5.45<br>12.19<br>12.20<br>12.29                                   | 1908A            | 12.21 |
| <b>18</b>                 | —                                                                               | —                                                                                                                 | —             | —             | —                                      | —                                    | 9509<br>82509<br>9683<br>88109                                          | 5.12<br>5.13<br>5.49<br>5.15<br>5.50                                                    | 9834                             | 5.30                            | 9732<br>89732<br>9992                               | 5.35<br>12.30<br>5.36<br>5.53<br>12.31<br>5.37                    | —                | —     |
| <b>20</b>                 | 9570▼                                                                           | 5.4                                                                                                               | —             | —             | —                                      | —                                    | 9542<br>9510                                                            | 4.11<br>5.12                                                                            | 8340<br>9835<br>8110             | 5.29<br>5.30<br>5.31            | 8170■                                               | 5.45                                                              | —                | —     |
| <b>22</b>                 | —                                                                               | —                                                                                                                 | —             | —             | —                                      | —                                    | —                                                                       | —                                                                                       | —                                | —                               | 9733                                                | 5.35<br>12.30                                                     | —                | —     |
| <b>24</b>                 | —                                                                               | —                                                                                                                 | —             | —             | —                                      | —                                    | —                                                                       | —                                                                                       | 9836                             | 5.30                            | 9734<br>9993<br>89734<br>1411R■<br>1513C■<br>1806F■ | 5.35<br>12.30<br>5.37<br>5.53<br>12.31<br>12.19<br>12.20<br>12.29 | 1912A            | 12.21 |
| <b>23 AWG</b>             |                                                                                 |                                                                                                                   |               |               |                                        |                                      |                                                                         |                                                                                         |                                  |                                 |                                                     |                                                                   |                  |       |
| <b>8</b>                  | 7851A▼<br>7852A▼<br>1872A▼<br>1874A▼<br>7881A▼<br>7882A▼<br>11872A▼<br>121872A▼ | 11.3<br>11.3<br>11.4<br>11.4<br>11.5<br>14.9<br>11.5<br>14.9<br>15.9<br>15.9                                      | —             | —             | —                                      | —                                    | —                                                                       | —                                                                                       | —                                | —                               | —                                                   | —                                                                 | —                | —     |
| <b>22 AWG</b>             |                                                                                 |                                                                                                                   |               |               |                                        |                                      |                                                                         |                                                                                         |                                  |                                 |                                                     |                                                                   |                  |       |
| <b>1</b>                  | —                                                                               | —                                                                                                                 | —             | —             | 9965<br>83305                          | 4.15<br>4.30                         | —                                                                       | —                                                                                       | —                                | —                               | —                                                   | —                                                                 | —                | —     |
| <b>2</b>                  | 8795▼<br>8442<br>88442<br>82442<br>9712<br>9151<br>8740▼<br>9407                | 4.3<br>4.3<br>12.36<br>4.4<br>4.23<br>5.6<br>5.48<br>4.4<br>4.23<br>5.6<br>5.48<br>12.33<br>12.34<br>5.4<br>15.41 | 8737          | 5.24<br>12.12 | 9966<br>83319<br>8422<br>8437▼<br>8441 | 4.15<br>4.30<br>12.6<br>5.23<br>5.23 | 83394<br>8450▼<br>9414<br>9462<br>8761<br>9461<br>8451<br>9451<br>1266A | 4.29<br>5.18<br>12.11<br>5.18<br>5.18<br>12.12<br>5.18<br>5.19<br>5.19<br>5.19<br>12.11 | 83552<br>3079A<br>3105A<br>1696A | 4.25<br>15.19<br>15.26<br>12.27 | —                                                   | —                                                                 | —                | —     |

\*Armored

▼ Solid conductors

• Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

◻ Quad



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|---------------------------|------------|-------|---------------|------|--------------|------|-------------------|-------|--------------------|-------|---------------------|-------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page  | Part No.           | Page  | Part No.            | Page  | Part No.         | Page |
| <b>22 AWG (continued)</b> |            |       |               |      |              |      |                   |       |                    |       |                     |       |                  |      |
| <b>2</b><br>(cont'd)      |            |       |               |      |              |      | 1503A             | 5.19  |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      | 88761             | 12.11 |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 5.20  |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 5.51  |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      | 87761             | 12.12 |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 5.20  |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 5.51  |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      | 82761             | 12.12 |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 5.20  |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 5.51  |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 12.12 |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      | 9182*             | 6.84  |                    |       |                     |       |                  |      |
| <b>3</b>                  | 8794▼      | 4.3   | —             | —    | 8735         | 4.14 | 9770              | 4.12  | 9939               | 4.19  | —                   | —     | —                | —    |
|                           | 8443       | 4.3   |               |      | 9967         | 4.15 | 8771              | 4.12  | 83553              | 4.25  |                     |       |                  |      |
|                           | 9491†      | 15.42 |               |      | 83334        | 4.30 | 83395             | 4.29  | 3106A              | 15.26 |                     |       |                  |      |
|                           |            |       |               |      |              |      | 9363†             | 15.42 |                    |       |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     |       |                  |      |
| <b>4</b>                  | 9794▼      | 4.3   | —             | —    | 9968         | 4.15 | 8729              | 4.12  | 9940               | 4.19  | 9406                | 5.38  | —                | —    |
|                           | 8444       | 4.3   |               |      | 83349        | 4.30 | 83396             | 4.29  | 83554              | 4.25  | 8723                | 5.38  |                  |      |
|                           | 88444      | 4.4   |               |      |              |      | 9302▼             | 5.17  | 8302               | 5.32  |                     | 12.13 |                  |      |
|                           |            | 4.23  |               |      |              |      | 9184▼             | 5.17  | 9855▼              | 5.33  |                     | 14.18 |                  |      |
|                           | 82444      | 4.4   |               |      |              |      | 3000A             | 15.41 | 1268A▼             | 5.33  | 82723               | 5.38  |                  |      |
|                           |            | 4.23  |               |      |              |      | 9512              | 15.41 | 89855▼             | 5.33  |                     | 5.54  |                  |      |
|                           | 8741▼      | 5.4   |               |      |              |      |                   |       |                    | 5.52  |                     | 12.13 |                  |      |
|                           | 9744       | 5.5   |               |      |              |      |                   |       | 1269A▼             | 5.33  | 88723               | 5.38  |                  |      |
|                           | 88741      | 5.6   |               |      |              |      |                   |       |                    | 5.52  |                     | 5.54  |                  |      |
|                           |            | 5.48  |               |      |              |      |                   |       | 9696▼              | 5.33  |                     | 12.13 |                  |      |
|                           | 82741      | 5.6   |               |      |              |      |                   |       | 89696▼             | 5.33  | 87723               | 5.38  |                  |      |
|                           |            | 5.48  |               |      |              |      |                   |       |                    | 5.52  |                     | 5.54  |                  |      |
|                           |            |       |               |      |              |      |                   |       | 3107A              | 15.26 |                     | 12.13 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       | 8728■               | 5.46  |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       | 9688■▼              | 11.20 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       | 82688■▼             | 11.20 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       | 1634A■▼             | 11.20 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       | 3087A               | 15.23 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       | 9328                | 15.42 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       | 3001A■              | 15.42 |                  |      |
| <b>5</b>                  | 8445       | 4.3   | —             | —    | —            | —    | —                 | —     | 9941               | 4.19  | —                   | —     | —                | —    |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     |       |                  |      |
| <b>6</b>                  | 9576▼      | 4.32  | —             | —    | —            | —    | 3002A†            | 15.42 | 9942               | 4.19  | 3003A†▼             | 15.42 |                  |      |
|                           | 8742▼      | 5.4   |               |      |              |      | 9513              | 15.41 | 83556              | 4.25  | 8767▼               | 5.37  |                  |      |
|                           | 9745       | 5.5   |               |      |              |      |                   |       | 8303               | 5.32  | 8777                | 5.40  |                  |      |
|                           | 82742      | 5.6   |               |      |              |      |                   |       | 3108A              | 15.26 |                     | 12.25 |                  |      |
|                           |            | 5.48  |               |      |              |      |                   |       |                    |       | 82777               | 5.41  |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     | 5.54  |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     | 12.25 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     | 5.41  |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     | 5.54  |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     | 12.25 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     | 5.41  |                  |      |
| <b>7</b>                  | 9430       | 4.3   | —             | —    | —            | —    | —                 | —     | 9943               | 4.19  | —                   | —     | —                | —    |
|                           |            |       |               |      |              |      |                   |       |                    |       |                     |       |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

■ Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.



# Multi-conductor Cable

## Less than 25 Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |       | Braid Shield |      | Overall Beldfoil® |       | Overall Foil/Braid |       | Individual Beldfoil |       | Individual Braid |      |
|---------------------------|------------|-------|---------------|-------|--------------|------|-------------------|-------|--------------------|-------|---------------------|-------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page  | Part No.     | Page | Part No.          | Page  | Part No.           | Page  | Part No.            | Page  | Part No.         | Page |
| <b>22 AWG (continued)</b> |            |       |               |       |              |      |                   |       |                    |       |                     |       |                  |      |
| 8                         | 9421       | 4.3   | —             | —     | —            | —    | 9305▼             | 5.17  | 9944               | 4.19  | 9330                | 15.42 | —                | —    |
|                           | 8757▼      | 5.4   | —             | —     | —            | —    | 3004A             | 15.41 | 8304               | 5.32  | 3005A■              | 15.42 | —                | —    |
|                           | 9746       | 5.5   | —             | —     | —            | —    | 9514              | 15.41 | 3109A              | 15.26 | 1815R■              | 12.22 | —                | —    |
|                           | 88757      | 5.6   | —             | —     | —            | —    | —                 | —     | —                  | —     | 1217B               | 12.24 | —                | —    |
|                           | 82757      | 5.48  | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
| 9                         | 82757      | 5.6   | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
|                           | 82757      | 5.48  | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
| 9                         | 9423       | 4.3   | —             | —     | —            | —    | —                 | —     | 9945               | 4.19  | —                   | —     | —                | —    |
| 10                        | 8456       | 4.3   | —             | —     | —            | —    | —                 | —     | 83559              | 4.25  | —                   | —     | —                | —    |
|                           | 8456       | 4.3   | —             | —     | —            | —    | —                 | —     | 9946               | 4.19  | —                   | —     | —                | —    |
| 12                        | 8456       | 4.3   | —             | —     | —            | —    | —                 | —     | 8305               | 5.32  | —                   | —     | —                | —    |
|                           | 8456       | 4.3   | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
| 12                        | 8457       | 4.4   | —             | —     | —            | —    | 9306▼             | 5.17  | 83562              | 4.25  | 8768▼               | 5.37  | —                | —    |
|                           | 8743▼      | 5.4   | —             | —     | —            | —    | 9516              | 15.41 | 8306               | 5.32  | 8778                | 5.40  | —                | —    |
|                           | 8747       | 5.5   | —             | —     | —            | —    | —                 | —     | —                  | —     | 82778               | 12.24 | —                | —    |
|                           | 82743      | 5.6   | —             | —     | —            | —    | —                 | —     | —                  | —     | 88778               | 5.41  | —                | —    |
|                           | 82743      | 5.6   | —             | —     | —            | —    | —                 | —     | —                  | —     | 87778               | 5.41  | —                | —    |
| 14                        | —          | —     | —             | —     | —            | —    | —                 | —     | 8307               | 5.32  | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
| 15                        | 8458       | 4.4   | —             | —     | —            | —    | —                 | —     | 9947               | 4.19  | —                   | —     | —                | —    |
| 16                        | 9160▼      | 5.4   | —             | —     | —            | —    | 3006A             | 15.41 | 8308               | 5.32  | 3007A■              | 15.42 | —                | —    |
|                           | 9160▼      | 5.4   | —             | —     | —            | —    | —                 | —     | —                  | —     | 1817R■              | 12.22 | —                | —    |
| 18                        | 8744▼      | 5.4   | —             | —     | —            | —    | 9309▼             | 5.17  | —                  | —     | 8764▼               | 5.37  | —                | —    |
|                           | 8748       | 5.5   | —             | —     | —            | —    | 9520              | 15.41 | —                  | —     | 8774                | 5.40  | —                | —    |
| 19                        | —          | —     | —             | —     | —            | —    | —                 | —     | 83569              | 4.25  | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
| 20                        | 9431       | 4.4   | —             | —     | —            | —    | —                 | —     | 8310               | 5.32  | —                   | —     | —                | —    |
| 22                        | —          | —     | —             | —     | —            | —    | 9521              | 15.41 | —                  | —     | 8765▼               | 5.37  | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | 8775                | 5.40  | —                | —    |
| 24                        | 9747       | 5.5   | —             | —     | —            | —    | 3008A             | 15.41 | —                  | —     | 9333                | 12.24 | —                | —    |
|                           | 9747       | 5.5   | —             | —     | —            | —    | —                 | —     | —                  | —     | 9768                | 12.24 | —                | —    |
| <b>20 AWG</b>             |            |       |               |       |              |      |                   |       |                    |       |                     |       |                  |      |
| 1                         | —          | —     | —             | —     | 9961         | 4.15 | —                 | —     | —                  | —     | —                   | —     | —                | —    |
| 2                         | —          | —     | —             | —     | 83306        | 4.31 | —                 | —     | —                  | —     | —                   | —     | —                | —    |
|                           | 85220      | 4.28  | 8759          | 5.24  | 9962         | 4.15 | 9802▼             | 4.22  | 83602              | 4.26  | 22671■              | 15.76 | —                | —    |
|                           | 7400A      | 15.33 | 8759          | 12.14 | 83320        | 4.31 | 83393             | 4.29  | 9207●              | 6.83  | 23543*■             | 15.78 | —                | —    |
|                           | 83930      | 15.54 | —             | —     | 8412         | 12.6 | 85230             | 4.29  | 9463               | 6.83  | 26530*■             | 15.78 | —                | —    |
|                           | 83932      | 15.54 | —             | —     | 8402         | 12.6 | 8762              | 5.20  | 9463DB             | 15.13 | —                   | —     | —                | —    |
|                           | 83934      | 15.54 | —             | —     | 9272         | 6.83 | —                 | 12.14 | 89463              | 15.13 | —                   | —     | —                | —    |
|                           | 83915      | 15.54 | —             | —     | —            | —    | 9464              | 5.20  | 129463*            | 15.14 | —                   | —     | —                | —    |
|                           | 83900      | 15.54 | —             | —     | —            | —    | —                 | 12.14 | 139463*            | 15.14 | —                   | —     | —                | —    |
|                           | 83905      | 15.54 | —             | —     | —            | —    | 9154              | 5.20  | 189463*            | 15.14 | —                   | —     | —                | —    |
|                           | 83910      | 15.54 | —             | —     | —            | —    | —                 | 12.14 | 9463F              | 15.13 | —                   | —     | —                | —    |
|                           | 8649       | 12.33 | —             | —     | —            | —    | 9320              | 15.43 | —                  | —     | —                   | —     | —                | —    |
|                           | 8205       | 5.7   | —             | —     | —            | —    | 1033A             | 15.43 | —                  | —     | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |
|                           | —          | —     | —             | —     | —            | —    | —                 | —     | —                  | —     | —                   | —     | —                | —    |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

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|---------------------------|------------|-------|---------------|------|--------------|-------|-------------------|-------|--------------------|------|---------------------|-------|------------------|------|
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| <b>20 AWG (continued)</b> |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| <b>2</b><br>(cont'd)      | 8205       | 12.36 |               |      |              |       | 3111A             | 15.53 |                    |      |                     |       |                  |      |
|                           | 9408       | 15.43 |               |      |              |       | 3112A             | 15.53 |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       | 3113A             | 15.53 |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       | 83955             | 15.54 |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       | 83950             | 15.54 |                    |      |                     |       |                  |      |
| <b>3</b>                  | 7101A      | 15.30 | —             | —    | 9963         | 4.15  | 8772              | 4.12  | —                  | —    | 22660†■             | 15.76 | —                | —    |
|                           | 7401A      | 15.33 |               |      | 83335        | 4.31  | 9803▼             | 4.22  |                    |      | 23545*†■            | 15.78 |                  |      |
|                           | 9492†      | 15.44 |               |      | 7401AS       | 15.33 | 85240             | 4.29  |                    |      | 26539*†■            | 15.78 |                  |      |
|                           |            |       |               |      | 8423         | 12.8  | 9364†             | 15.44 |                    |      |                     |       |                  |      |
|                           |            |       |               |      | 8403         | 12.8  | 1526A†            | 15.44 |                    |      |                     |       |                  |      |
| <b>4</b>                  | 9444       | 4.5   | —             | —    | 9964         | 4.15  | 3016A             | 15.43 | 83604              | 4.26 | 9402                | 5.41  | —                | —    |
|                           | 7102A      | 15.30 |               |      | 83350        | 4.31  |                   |       |                    |      | 1075A■              | 15.43 |                  |      |
|                           | 7402A      | 15.33 |               |      | 7402AS       | 15.33 |                   |       |                    |      | 3115A■              | 15.53 |                  |      |
|                           |            |       |               |      | 8424         | 12.9  |                   |       |                    |      | 22638■              | 15.76 |                  |      |
|                           |            |       |               |      | 8404         | 12.9  |                   |       |                    |      | 23534*■             | 15.78 |                  |      |
| <b>5</b>                  | 9445       | 4.5   | —             | —    | 7403AS       | 15.33 | —                 | —     | —                  | —    | 26531*■             | 15.78 | —                | —    |
|                           | 7403A      | 15.33 |               |      | 8405         | 12.39 |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      | 8425         | 12.39 |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| <b>6</b>                  | 9750       | 5.7   | —             | —    | 9260         | 4.14  | 3017A†            | 15.44 | 83606              | 4.26 | 3018A†■             | 15.44 | —                | —    |
|                           |            |       |               |      | 8426         | 12.39 |                   |       |                    |      | 22662†■             | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23546*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26540*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 9883                | 5.41  |                  |      |
| <b>7</b>                  | 9439       | 4.5   | —             | —    | 7404AS       | 15.33 | —                 | —     | —                  | —    | 9873                | 5.42  | —                | —    |
|                           | 7404A      | 15.33 |               |      | 8427         | 12.39 |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| <b>8</b>                  | —          | —     | —             | —    | 8418         | 12.39 | 85164             | 5.11  | —                  | —    | 8725                | 5.47  | —                | —    |
|                           |            |       |               |      |              |       | 1056A             | 15.43 |                    |      | 9901●■              | 11.18 |                  |      |
|                           |            |       |               |      |              |       | 1102A             | 15.53 |                    |      | 89901●■             | 11.18 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1076A■              | 15.43 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1112A■              | 15.53 |                  |      |
| <b>9</b>                  | 9455       | 4.5   | —             | —    | —            | —     | —                 | —     | 83609              | 4.26 | 1006A■              | 15.53 | —                | —    |
|                           | 7105A      | 15.30 |               |      |              |       |                   |       |                    |      | 1012A■              | 15.53 |                  |      |
|                           | 7405A      | 15.33 |               |      |              |       |                   |       |                    |      | 22639■              | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23514*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26532*■             | 15.78 |                  |      |
| <b>10</b>                 | —          | —     | —             | —    | —            | —     | 9890▼             | 4.22  | —                  | —    | 9902●■              | 11.18 | —                | —    |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| <b>12</b>                 | 9457       | 4.5   | —             | —    | 9261         | 4.14  | 3020A†            | 15.44 | 83612              | 4.26 | 1083A†■             | 15.44 | —                | —    |
|                           | 7106A      | 15.30 |               |      | 7106AS       | 15.30 |                   |       |                    |      | 22663†■             | 15.76 |                  |      |
|                           | 7406A      | 15.33 |               |      |              |       |                   |       |                    |      | 23547*†■            | 15.78 |                  |      |
|                           | 9751       | 5.7   |               |      |              |       |                   |       |                    |      | 26541*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 9886                | 5.41  |                  |      |
| <b>15</b>                 | 9458       | 4.5   | —             | —    | —            | —     | 9894▼             | 4.22  | —                  | —    | 9874                | 5.42  | —                | —    |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22640■              | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23513*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26533*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| <b>16</b>                 | —          | —     | —             | —    | —            | —     | 85168             | 5.11  | —                  | —    | 1077A■              | 15.43 | —                | —    |
|                           |            |       |               |      |              |       | 1057A             | 15.43 |                    |      | 1007A■              | 15.53 |                  |      |
|                           |            |       |               |      |              |       | 1001A             | 15.53 |                    |      | 1013A■              | 15.53 |                  |      |
|                           |            |       |               |      |              |       | 1103A             | 15.53 |                    |      | 22641■              | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23503*■             | 15.78 |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

● Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

# Multi-conductor and Paired Cable

## Less than 25 Conductors

| No. of Conductors         | Unshielded                                                                                                                       |                                                                                                                                                   | Spiral Shield |               | Braid Shield                  |                              | Overall Beldfoil®                                                                                               |                                                                                                    | Overall Foil/Braid      |                        | Individual Beldfoil                                                                                                        |                                                                                                         | Individual Braid |      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------|------|
|                           | Part No.                                                                                                                         | Page                                                                                                                                              | Part No.      | Page          | Part No.                      | Page                         | Part No.                                                                                                        | Page                                                                                               | Part No.                | Page                   | Part No.                                                                                                                   | Page                                                                                                    | Part No.         | Page |
| <b>20 AWG (continued)</b> |                                                                                                                                  |                                                                                                                                                   |               |               |                               |                              |                                                                                                                 |                                                                                                    |                         |                        |                                                                                                                            |                                                                                                         |                  |      |
| <b>18</b>                 | 7107A<br>7407A<br>9752                                                                                                           | 15.30<br>15.33<br>5.7                                                                                                                             | —             | —             | —                             | —                            | —                                                                                                               | —                                                                                                  | —                       | —                      | 9875                                                                                                                       | 5.42                                                                                                    | —                | —    |
| <b>22</b>                 | —                                                                                                                                | —                                                                                                                                                 | —             | —             | —                             | —                            | —                                                                                                               | —                                                                                                  | —                       | —                      | 9876                                                                                                                       | 5.42                                                                                                    | —                | —    |
| <b>24</b>                 | —                                                                                                                                | —                                                                                                                                                 | —             | —             | —                             | —                            | 3021A†<br>1058A<br>1002A                                                                                        | 15.44<br>15.43<br>15.53                                                                            | —                       | —                      | 1084A†■<br>22672†■<br>23548*†■<br>26542*†■<br>9877<br>1078A■<br>1008A■<br>1014A■<br>1025A■<br>22676■<br>23521*■<br>26535*■ | 15.44<br>15.76<br>15.78<br>15.78<br>5.42<br>15.43<br>15.53<br>15.53<br>15.53<br>15.76<br>15.78<br>15.78 | —                | —    |
| <b>19 AWG</b>             |                                                                                                                                  |                                                                                                                                                   |               |               |                               |                              |                                                                                                                 |                                                                                                    |                         |                        |                                                                                                                            |                                                                                                         |                  |      |
| <b>2</b>                  | 8486                                                                                                                             | 5.7                                                                                                                                               | —             | —             | —                             | —                            | —                                                                                                               | —                                                                                                  | —                       | —                      | —                                                                                                                          | —                                                                                                       | —                | —    |
| <b>18 AWG</b>             |                                                                                                                                  |                                                                                                                                                   |               |               |                               |                              |                                                                                                                 |                                                                                                    |                         |                        |                                                                                                                            |                                                                                                         |                  |      |
| <b>1</b>                  | —                                                                                                                                | —                                                                                                                                                 | —             | —             | 83307                         | 4.31                         | —                                                                                                               | —                                                                                                  | —                       | —                      | —                                                                                                                          | —                                                                                                       | —                | —    |
| <b>2</b>                  | 9571▼<br>7409A<br>27916A<br>27325A<br>9708<br>8460<br>1863A<br>8461<br>29030*<br>9740<br>89740<br>87740<br>82740<br>9409<br>9486 | 4.32<br>15.34<br>15.63<br>15.63<br>12.33<br>12.34<br>12.34<br>5.7<br>12.35<br>15.88<br>5.8<br>5.9<br>5.48<br>5.9<br>5.48<br>5.9<br>15.45<br>15.56 | 8790          | 5.24<br>12.15 | 83321<br>8428<br>9250<br>8208 | 4.31<br>12.7<br>6.83<br>5.23 | 27325AS<br>9574▼<br>8760<br>9460<br>88760<br>87760<br>82760<br>3076F<br>9318<br>1032A<br>9341<br>1120A<br>3088A | 15.63<br>4.32<br>5.21<br>5.21<br>5.21<br>5.21<br>5.21<br>25.19<br>15.45<br>15.46<br>15.56<br>15.56 | 83652<br>3073F<br>3074F | 4.26<br>15.16<br>15.16 | 22645■<br>23533*■<br>26514*■<br>22417■<br>24511*■<br>25506*■                                                               | 15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81                                                      | —                | —    |
| <b>3</b>                  | 7110A<br>7410A<br>9493†<br>27334A<br>29031*                                                                                      | 15.30<br>15.34<br>15.42<br>15.63<br>15.88                                                                                                         | —             | —             | 83336                         | 4.31                         | 27334AS<br>8770<br>88770<br>9365†<br>1036A†<br>1121A†<br>3089A†                                                 | 15.63<br>4.13<br>4.13<br>4.24<br>15.47<br>15.47<br>15.57<br>15.57                                  | 83653                   | 4.26                   | 22677†■<br>23505*†■<br>26522<br>22442†■<br>24516*†■<br>25500*†■                                                            | 15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81                                                      | —                | —    |
| <b>4</b>                  | 8489<br>88489<br>82489<br>7411A<br>27326A<br>29032*<br>9156                                                                      | 4.5<br>4.6<br>4.23<br>4.6<br>4.23<br>15.34<br>15.63<br>15.88<br>5.8                                                                               | —             | —             | 83351<br>7111AS<br>7411AS     | 4.31<br>15.30<br>15.34       | 27326AS<br>9418<br>89418<br>82418<br>9578▼<br>9552<br>3025A<br>1063A                                            | 15.63<br>4.13<br>4.13<br>4.24<br>4.13<br>4.24<br>4.32<br>15.45<br>15.46<br>15.56                   | 83654                   | 4.26                   | 9368<br>1474A■<br>1048A■<br>22633■<br>23511*■<br>26515*■<br>22405■<br>24512*■<br>25514*■                                   | 15.45<br>15.46<br>15.56<br>15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81                           | —                | —    |
| <b>5</b>                  | 8465<br>7412A                                                                                                                    | 4.5<br>15.34                                                                                                                                      | —             | —             | —                             | —                            | —                                                                                                               | —                                                                                                  | —                       | —                      | —                                                                                                                          | —                                                                                                       | —                | —    |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

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♦ Quad



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|--------------------|----------------------------------------------------|------------------------------------------------|---------------|------|------------------|----------------|-------------------------|-------------------------|--------------------|------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------|------|---|
|                    | Part No.                                           | Page                                           | Part No.      | Page | Part No.         | Page           | Part No.                | Page                    | Part No.           | Page | Part No.                                                                                                                                 | Page                                                                                                             | Part No.         | Page |   |
| 18 AWG (continued) |                                                    |                                                |               |      |                  |                |                         |                         |                    |      |                                                                                                                                          |                                                                                                                  |                  |      |   |
| 5<br>(cont'd)      | 27335A<br>29033*                                   | 15.63<br>15.88                                 |               |      |                  |                |                         |                         |                    |      |                                                                                                                                          |                                                                                                                  |                  |      |   |
| 6                  | 27600A<br>29034*<br>8690                           | 15.63<br>15.88<br>5.8                          | —             | —    | —                | —              | 3027A†<br>9553<br>1529A | 15.47<br>15.45<br>15.46 | 83656              | 4.26 | 3028A†■<br>3064A†■<br>22678†■<br>23516*†■<br>26523*†■<br>22443†■<br>24517*†■<br>25522*†■<br>9773<br>9369                                 | 15.47<br>15.57<br>15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81<br>5.42<br>15.45                            | —                | —    | — |
| 7                  | 8467<br>7113A<br>7413A<br>27327A<br>29035*         | 4.5<br>15.30<br>15.34<br>15.63<br>15.88        | —             | —    | 7413AS           | 15.34          | —                       | —                       | —                  | —    | —                                                                                                                                        | —                                                                                                                | —                | —    |   |
| 8                  | 27601A<br>29036*<br>9157                           | 15.63<br>15.88<br>5.8                          | —             | —    | —                | —              | 9554<br>1466A<br>1064A  | 15.45<br>15.46<br>15.56 | —                  | —    | 3029A<br>9388<br>1475A■<br>1049A■<br>22648■<br>23530*■<br>26516*■<br>22404■<br>24513*■<br>25503*■                                        | 15.45<br>15.45<br>15.46<br>15.56<br>15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81                           | —                | —    | — |
| 9                  | 8469<br>7414A<br>27336A                            | 4.5<br>15.34<br>15.63                          | —             | —    | —                | —              | —                       | —                       | 83659              | 4.26 | —                                                                                                                                        | —                                                                                                                | —                | —    |   |
| 10                 | 27328A<br>29038*<br>9159                           | 15.63<br>15.88<br>5.8                          | —             | —    | —                | —              | —                       | —                       | —                  | —    | —                                                                                                                                        | —                                                                                                                | —                | —    |   |
| 11                 | 27602A                                             | 15.63                                          | —             | —    | —                | —              | —                       | —                       | —                  | —    | —                                                                                                                                        | —                                                                                                                | —                | —    |   |
| 12                 | 8466<br>7115A<br>7415A<br>27329A<br>29040*<br>8691 | 4.5<br>15.30<br>15.34<br>15.63<br>15.88<br>5.8 | —             | —    | 7115AS<br>7415AS | 15.30<br>15.34 | 3030A†<br>9556          | 15.47<br>15.45          | 83662              | 4.26 | 3031A†■<br>1093A†■<br>22679†■<br>23515*†■<br>26524*†■<br>22444†■<br>24518*†■<br>25520*†■<br>9774<br>9389<br>22634■<br>23528*■<br>26517*■ | 15.47<br>15.57<br>15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81<br>5.42<br>15.45<br>15.76<br>15.78<br>15.78 | —                | —    | — |
| 13                 | 27603A                                             | 15.63                                          | —             | —    | —                | —              | —                       | —                       | —                  | —    | —                                                                                                                                        | —                                                                                                                | —                | —    |   |
| 14                 | 27604A                                             | 15.63                                          | —             | —    | —                | —              | —                       | —                       | —                  | —    | —                                                                                                                                        | —                                                                                                                | —                | —    |   |
| 15                 | 8468<br>27605A<br>29043*                           | 4.5<br>15.63<br>15.88                          | —             | —    | —                | —              | —                       | —                       | —                  | —    | —                                                                                                                                        | —                                                                                                                | —                | —    |   |
| 16                 | 27606A<br>9161                                     | 15.63<br>5.8                                   | —             | —    | —                | —              | 1467A<br>1065A          | 15.46<br>15.56          | —                  | —    | 1476A■<br>1050A■<br>22635■<br>23531*■<br>26518*■<br>22418■<br>24514*■<br>25505*■                                                         | 15.46<br>15.56<br>15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81                                             | —                | —    | — |
| 17                 | 27607A                                             | 15.63                                          | —             | —    | —                | —              | —                       | —                       | —                  | —    | —                                                                                                                                        | —                                                                                                                | —                | —    |   |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▫ Quad

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|---------------------------|------------|-------|---------------|---------------|--------------|-------|-------------------|-------|--------------------|---------------|---------------------|-------|------------------|------|
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| <b>18 AWG (continued)</b> |            |       |               |               |              |       |                   |       |                    |               |                     |       |                  |      |
| <b>18</b>                 | 7116A      | 15.30 | —             | —             | 7416AS       | 15.34 | 9559              | 15.45 | —                  | —             | 23508*†■            | 15.78 | —                | —    |
|                           | 7416A      | 15.34 | —             | —             | —            | —     | —                 | —     | —                  | —             | 26525*†■            | 15.78 | —                | —    |
|                           | 27608A     | 15.63 | —             | —             | —            | —     | —                 | —     | —                  | —             | 9775                | 5.42  | —                | —    |
|                           | 8692       | 5.8   | —             | —             | —            | —     | —                 | —     | —                  | —             | 9390                | 15.45 | —                | —    |
| <b>19</b>                 | 8619       | 4.6   | —             | —             | —            | —     | —                 | —     | —                  | —             | —                   | —     | —                | —    |
|                           | 27609A     | 15.63 | —             | —             | —            | —     | —                 | —     | —                  | —             | —                   | —     | —                | —    |
| <b>20</b>                 | 27610A     | 15.63 | —             | —             | —            | —     | —                 | —     | —                  | —             | —                   | —     | —                | —    |
|                           | 29048*     | 15.88 | —             | —             | —            | —     | —                 | —     | —                  | —             | —                   | —     | —                | —    |
| <b>22</b>                 | —          | —     | —             | —             | —            | —     | 9563              | 15.45 | —                  | —             | 9391                | 15.45 | —                | —    |
| <b>24</b>                 | 9741       | 5.8   | —             | —             | —            | —     | 3032A†            | 15.47 | —                  | —             | 3033A†■             | 15.47 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | 1468A             | 15.46 | —                  | —             | 1094A†■             | 15.57 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | 1066A             | 15.56 | —                  | —             | 22680†■             | 15.76 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 23523*†■            | 15.78 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 26526*†■            | 15.78 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 22445†■             | 15.80 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 24519*†■            | 15.81 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 25523*†■            | 15.81 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 9776                | 5.42  | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 1477A■              | 15.58 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 1051A■              | 15.56 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 22636■              | 15.76 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 23524*■             | 15.78 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 26519*■             | 15.78 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 22421■              | 15.80 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 24515*■             | 15.81 | —                | —    |
|                           | —          | —     | —             | —             | —            | —     | —                 | —     | —                  | —             | 25501               | 15.81 | —                | —    |
| <b>16 AWG</b>             |            |       |               |               |              |       |                   |       |                    |               |                     |       |                  |      |
| <b>1</b>                  | —          | —     | —             | —             | 9951         | 4.15  | —                 | —     | —                  | —             | —                   | —     | —                | —    |
|                           | —          | —     | —             | —             | 83308        | 4.31  | —                 | —     | —                  | —             | —                   | —     | —                | —    |
| <b>2</b>                  | 8677       | 4.8   | 8780          | 5.24<br>12.16 | 9952         | 4.15  | 85231             | 4.29  | 83702              | 4.27<br>6.84  | 22646■              | 15.77 | —                | —    |
|                           | 85221      | 4.28  |               |               | 83322        | 4.31  | 9575▼             | 4.32  |                    |               | 23501*■             | 15.79 |                  |      |
|                           | 85102      | 4.28  |               |               | 7121AS       | 15.31 | 27337AS           | 15.64 |                    |               | 26500*■             | 15.79 |                  |      |
|                           | 9572▼      | 4.32  |               |               | 8408         | 12.7  | 8719              | 5.22  |                    |               | 22416■              | 15.80 |                  |      |
|                           | 7421A      | 15.35 |               |               | —            | —     | —                 | 12.16 |                    |               | 24500*■             | 15.81 |                  |      |
|                           | 27917A     | 15.64 |               |               | —            | —     | 9316              | 15.48 |                    |               | 25504*■             | 15.81 |                  |      |
|                           | 27337A     | 15.64 |               |               | —            | —     | 1030A             | 15.48 |                    |               | —                   | —     |                  |      |
|                           | 9716       | 12.33 |               |               | —            | —     | 1101A             | 15.53 |                    |               | —                   | —     |                  |      |
|                           | —          | 14.17 |               |               | —            | —     | 1000A             | 15.53 |                    |               | —                   | —     |                  |      |
|                           | 8470       | 12.34 |               |               | —            | —     | 1018A             | 15.53 |                    |               | —                   | —     |                  |      |
|                           | 9497       | 12.34 |               |               | —            | —     | 1023A             | 15.53 |                    |               | —                   | —     |                  |      |
|                           | 1862A      | 12.34 |               |               | —            | —     | 1114A             | 15.54 |                    |               | —                   | —     |                  |      |
|                           | 8471       | 5.9   |               |               | —            | —     | 1115A             | 15.54 |                    |               | —                   | —     |                  |      |
|                           | —          | 12.36 |               |               | —            | —     | 1116A             | 15.54 |                    |               | —                   | —     |                  |      |
|                           | 29017*     | 15.88 |               |               | —            | —     | 1117A             | 15.54 |                    |               | —                   | —     |                  |      |
|                           | 9410       | 15.48 |               |               | —            | —     | 83951             | 15.54 |                    |               | —                   | —     |                  |      |
|                           | 1035A      | 15.48 |               |               | —            | —     | 83953             | 15.54 |                    |               | —                   | —     |                  |      |
|                           | 9487       | 15.58 |               |               | —            | —     | 9342              | 15.58 |                    |               | —                   | —     |                  |      |
|                           | —          | —     |               |               | —            | —     | 1118A             | 15.58 |                    |               | —                   | —     |                  |      |
|                           | —          | —     |               |               | —            | —     | 3090A             | 15.58 |                    |               | —                   | —     |                  |      |
|                           | —          | —     |               |               | —            | —     | —                 | —     |                    |               | —                   | —     |                  |      |
|                           | —          | —     |               |               | —            | —     | —                 | —     |                    |               | —                   | —     |                  |      |
|                           | —          | —     |               |               | —            | —     | —                 | —     |                    |               | —                   | —     |                  |      |
|                           | —          | —     |               |               | —            | —     | —                 | —     |                    |               | —                   | —     |                  |      |
| <b>3</b>                  | 9498       | 4.6   | —             | —             | 9953         | 4.15  | 8618              | 4.13  | 83703              | 4.27          | 22603†■             | 15.77 | —                | —    |
|                           | 85103      | 4.28  |               |               | 83337        | 4.31  | 85241             | 4.29  |                    |               | 23507*†■            | 15.79 |                  |      |
|                           | 7122A      | 15.31 |               |               | 7422AS       | 15.35 | 9366†             | 15.49 |                    |               | 26502*†■            | 15.79 |                  |      |
|                           | 7422A      | 15.35 |               |               | —            | —     | 1031A†            | 15.49 |                    |               | 22413†■             | 15.80 |                  |      |
|                           | 9494†      | 15.49 |               |               | —            | —     | 1119A†            | 15.59 |                    |               | 24501*†■            | 15.81 |                  |      |
|                           | 1034A†     | 15.49 |               |               | —            | —     | 3091A†            | 15.59 |                    |               | 25502*†■            | 15.81 |                  |      |
|                           | 27331A     | 15.64 |               |               | —            | —     | 27331AS           | 15.64 |                    |               | —                   | —     |                  |      |
|                           | 29004*     | 15.88 |               |               | —            | —     | —                 | —     |                    |               | —                   | —     |                  |      |
| <b>4</b>                  | 8620       | 4.6   | —             | —             | 9954         | 4.15  | 9579▼             | 4.32  | 83704              | 4.27<br>15.28 | 1492A■              | 15.48 | —                | —    |
|                           | 7423A      | 15.35 |               |               | 83352        | 4.31  | 3043A             | 15.48 |                    |               | 1055A■              | 15.58 |                  |      |
|                           | 27338A     | 15.64 |               |               | 7123AS       | 15.31 | 1069A             | 15.58 |                    |               | 22628■              | 15.77 |                  |      |
|                           | 29018*     | 15.88 |               |               | 7423AS       | 15.35 | —                 | —     |                    |               | 23527*■             | 15.79 |                  |      |
|                           | 3082K      | 15.22 |               |               | 8407         | 12.9  | —                 | —     |                    |               | 26501*■             | 15.79 |                  |      |
|                           | —          | —     |               |               | —            | —     | —                 | —     |                    |               | —                   | —     |                  |      |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

♦ Quad



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|---------------------------|-------------------------------------------------------------|----------------------------------------------------------------|---------------|------|--------------|-------|--------------------------------------|-------------------------|--------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------|------|
|                           | Part No.                                                    | Page                                                           | Part No.      | Page | Part No.     | Page  | Part No.                             | Page                    | Part No.           | Page | Part No.                                                                                                                                                                                                                                                                                                                                       | Page                                                                                                                                | Part No.         | Page |
| <b>16 AWG (continued)</b> |                                                             |                                                                |               |      |              |       |                                      |                         |                    |      |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                     |                  |      |
| <b>4</b><br>(cont'd)      | 3082KP                                                      | 15.22                                                          |               |      |              |       |                                      |                         |                    |      | 22409 <sup>■</sup><br>24505 <sup>■*</sup><br>25510 <sup>■*</sup>                                                                                                                                                                                                                                                                               | 15.80<br>15.81<br>15.81                                                                                                             |                  |      |
| <b>5</b>                  | 9620<br>9420<br>85105<br>7424A<br>27339A<br>29019*          | 4.6<br>4.9<br>9.10<br>4.28<br>15.35<br>15.64<br>15.88          | —             | —    | —            | —     | —                                    | —                       | —                  | —    | —                                                                                                                                                                                                                                                                                                                                              | —                                                                                                                                   | —                | —    |
| <b>6</b>                  | 27615A<br>29005*                                            | 15.64<br>15.88                                                 | —             | —    | —            | —     | 3044A <sup>†</sup><br>1528A<br>1527A | 15.49<br>15.48<br>15.58 | 83706              | 4.27 | 3045A <sup>†</sup><br>22687 <sup>†</sup><br>23522 <sup>*†</sup><br>26509 <sup>*†</sup><br>22448 <sup>†</sup><br>24507 <sup>*†</sup><br>25507 <sup>*†</sup><br>1037A <sup>■</sup>                                                                                                                                                               | 15.49<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81<br>15.58                                                                | —                | —    |
| <b>7</b>                  | 8621<br>9422<br>85107<br>7125A<br>7425A<br>27323A<br>29020* | 4.6<br>4.9<br>9.10<br>4.28<br>15.31<br>15.35<br>15.64<br>15.88 | —             | —    | —            | —     | —                                    | —                       | —                  | —    | —                                                                                                                                                                                                                                                                                                                                              | —                                                                                                                                   | —                | —    |
| <b>8</b>                  | 9721<br>27616A<br>29021*                                    | 4.6<br>15.64<br>15.88                                          | —             | —    | —            | —     | 1484A<br>1070A                       | 15.48<br>15.58          | —                  | —    | 1493A <sup>■</sup><br>1039A <sup>■</sup><br>22629 <sup>■</sup><br>23509 <sup>■</sup><br>26503 <sup>■*</sup><br>22410 <sup>■</sup><br>24502 <sup>■*</sup><br>25511 <sup>■*</sup>                                                                                                                                                                | 15.48<br>15.58<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81                                                                | —                | —    |
| <b>9</b>                  | 9621<br>9424<br>85109<br>7126A<br>7426A<br>27340A           | 4.6<br>4.9<br>9.10<br>4.28<br>15.31<br>15.35<br>15.64          | —             | —    | —            | —     | —                                    | —                       | 83709              | 4.27 | —                                                                                                                                                                                                                                                                                                                                              | —                                                                                                                                   | —                | —    |
| <b>10</b>                 | 27617A<br>29022*                                            | 15.64<br>15.88                                                 | —             | —    | —            | —     | —                                    | —                       | —                  | —    | —                                                                                                                                                                                                                                                                                                                                              | —                                                                                                                                   | —                | —    |
| <b>11</b>                 | 27618A                                                      | 15.64                                                          | —             | —    | —            | —     | —                                    | —                       | —                  | —    | —                                                                                                                                                                                                                                                                                                                                              | —                                                                                                                                   | —                | —    |
| <b>12</b>                 | 8622<br>9425<br>7127A<br>7427A<br>27341A<br>29006*          | 4.6<br>4.9<br>9.10<br>15.31<br>15.35<br>15.64<br>15.88         | —             | —    | 7427AS       | 15.35 | 3046A <sup>†</sup>                   | 15.49                   | 83712              | 4.27 | 3047A <sup>†</sup><br>1097A <sup>†</sup><br>22675 <sup>†</sup><br>23520 <sup>*†</sup><br>26510 <sup>*†</sup><br>22414 <sup>†</sup><br>24508 <sup>*†</sup><br>25509 <sup>*†</sup><br>1040A <sup>■</sup><br>22630 <sup>■</sup><br>23500 <sup>■*</sup><br>26504 <sup>■*</sup><br>22446 <sup>■</sup><br>24506 <sup>■*</sup><br>25512 <sup>■*</sup> | 15.49<br>15.59<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81<br>15.58<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81 | —                | —    |
| <b>13</b>                 | 27619A                                                      | 15.64                                                          | —             | —    | —            | —     | —                                    | —                       | —                  | —    | —                                                                                                                                                                                                                                                                                                                                              | —                                                                                                                                   | —                | —    |
| <b>14</b>                 | 27620A                                                      | 15.64                                                          | —             | —    | —            | —     | —                                    | —                       | —                  | —    | —                                                                                                                                                                                                                                                                                                                                              | —                                                                                                                                   | —                | —    |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◐ Quad

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■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

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| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |       | Overall Beldfoil® |       | Overall Foil/Braid |      | Individual Beldfoil |       | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|-------|-------------------|-------|--------------------|------|---------------------|-------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page  | Part No.          | Page  | Part No.           | Page | Part No.            | Page  | Part No.         | Page |
| <b>16 AWG (continued)</b> |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 15                        | 8623       | 4.6   | —             | —    | —            | —     | —                 | —     | 83715              | 4.27 | —                   | —     | —                | —    |
|                           | 27621A     | 15.64 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 29023*     | 15.88 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 16                        | 9427       | 4.9   | —             | —    | —            | —     | 1485A             | 15.48 | —                  | —    | 1494A■              | 15.48 | —                | —    |
|                           |            | 9.10  |               |      |              |       | 1071A             | 15.58 |                    |      | 1041A■              | 15.58 |                  |      |
|                           | 27330A     | 15.64 |               |      |              |       |                   |       |                    |      | 22631■              | 15.77 |                  |      |
| 17                        |            |       |               |      |              |       |                   |       |                    |      | 23510**■            | 15.79 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26505**■            | 15.79 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22411■              | 15.80 |                  |      |
| 18                        |            |       |               |      |              |       |                   |       |                    |      | 24503**■            | 15.81 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 25513**■            | 15.81 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 17                        | 27622A     | 15.64 | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
| 18                        | 7128A      | 15.31 | —             | —    | 7428AS       | 15.35 | —                 | —     | —                  | —    | 22688†■             | 15.77 | —                | —    |
|                           | 7428A      | 15.35 |               |      |              |       |                   |       |                    |      | 23529*†■            | 15.79 |                  |      |
|                           | 27623A     | 15.64 |               |      |              |       |                   |       |                    |      | 26511*†■            | 15.79 |                  |      |
| 19                        | 8624       | 4.6   | —             | —    | —            | —     | —                 | —     | 83719              | 4.27 | —                   | —     | —                | —    |
|                           | 27624A     | 15.64 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 20                        | 9429       | 4.9   | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
|                           |            | 9.10  |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 27625A     | 15.64 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 29007*     | 15.88 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 24                        | —          | —     | —             | —    | —            | —     | 3048A†            | 15.49 | —                  | —    | 3049A†■             | 15.49 | —                | —    |
|                           |            |       |               |      |              |       | 1486A             | 15.48 |                    |      | 1098A†■             | 15.59 |                  |      |
|                           |            |       |               |      |              |       | 1072A             | 15.58 |                    |      | 22689†■             | 15.77 |                  |      |
| 14 AWG                    |            |       |               |      |              |       |                   |       |                    |      | 23526*†■            | 15.79 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26512*†■            | 15.79 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22415†■             | 15.80 |                  |      |
| 2                         |            |       |               |      |              |       |                   |       |                    |      | 24509*†■            | 15.81 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 25508*†■            | 15.81 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1495A■              | 15.48 |                  |      |
| 3                         |            |       |               |      |              |       |                   |       |                    |      | 1042A■              | 15.58 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22632■              | 15.77 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23525**■            | 15.79 |                  |      |
| 2                         |            |       |               |      |              |       |                   |       |                    |      | 26506**■            | 15.79 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22412■              | 15.80 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 24504**■            | 15.81 |                  |      |
| 3                         |            |       |               |      |              |       |                   |       |                    |      | 25518**■            | 15.81 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 2                         | 8675       | 4.8   | —             | —    | —            | —     | 9581▼             | 4.33  | 83752              | 4.34 | —                   | —     | —                | —    |
|                           | 9580▼      | 4.33  |               |      |              |       | 8720              | 5.22  |                    |      |                     |       |                  |      |
|                           | 7434A      | 15.36 |               |      |              |       |                   | 12.16 |                    |      |                     |       |                  |      |
| 3                         | 27080A     | 15.65 |               |      |              |       | 9314              | 15.50 |                    |      |                     |       |                  |      |
|                           | 27636A     | 15.65 |               |      |              |       | 9343              | 15.60 |                    |      |                     |       |                  |      |
|                           | 9717       | 12.31 |               |      |              |       | 3080A             | 15.60 |                    |      |                     |       |                  |      |
| 2                         |            | 14.17 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 1861A      | 12.33 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 8473       | 5.9   |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 3                         |            | 12.34 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 27243*     | 15.70 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 28243*     | 15.70 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 2                         | 27840*     | 15.73 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 28840*     | 15.73 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 22100      | 15.82 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 3                         | 27000      | 15.84 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | C5500*     | 15.89 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 9411       | 15.50 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 2                         | 9488       | 15.60 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 3                         | 7435A      | 15.36 | —             | —    | —            | —     | 9367†             | 15.50 | 83753              | 4.34 | —                   | —     | —                | —    |
|                           | 9495†      | 15.50 |               |      |              |       | 3081A†            | 15.60 |                    |      |                     |       |                  |      |
|                           | 27081A     | 15.65 |               |      |              |       | 27081AS           | 15.65 |                    |      |                     |       |                  |      |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

■ Quad



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## Multi-conductor and Paired Cable

Less than 25 Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |       | Overall Beldfoil® |       | Overall Foil/Braid |       | Individual Beldfoil |      | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|-------|-------------------|-------|--------------------|-------|---------------------|------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page  | Part No.          | Page  | Part No.           | Page  | Part No.            | Page | Part No.         | Page |
| <b>14 AWG (continued)</b> |            |       |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>3</b><br>(cont'd)      | 27244 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28244 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27841 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28841 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 22101      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27001      | 15.84 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | C5501 *    | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | C5701 *    | 15.92 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>4</b>                  | 8627       | 4.7   | —             | —    | 7136AS       | 15.31 | 27082AS           | 15.65 | 83754              | 4.34  | —                   | —    | —                | —    |
|                           | 7136A      | 15.31 |               |      | 7436AS       | 15.36 |                   |       | 29501              | 15.28 |                     |      |                  |      |
|                           | 7436A      | 15.36 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27082A     | 15.65 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 1810A      | 12.35 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27245 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28245 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27842 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28842 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 22102      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27002      | 15.84 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | C5502 *    | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | C5702 *    | 15.92 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>5</b>                  | 9623       | 4.7   | —             | —    | —            | —     | —                 | —     | —                  | —     | —                   | —    | —                | —    |
|                           | 27083A     | 15.65 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27246 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28246 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27843 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28843 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 22103      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27003      | 15.84 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>6</b>                  | C5503 *    | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27084A     | 15.65 | —             | —    | —            | —     | —                 | —     | 83756              | 4.34  | —                   | —    | —                | —    |
|                           | 27247 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28247 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27844 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28844 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 22104      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27004      | 15.84 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>7</b>                  | C5504 *    | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 8628       | 4.7   | —             | —    | 7438AS       | 15.36 | —                 | —     | —                  | —     | —                   | —    | —                | —    |
|                           | 7438A      | 15.36 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27085A     | 15.65 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27248 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28248 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27845 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28845 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>8</b>                  | 22105      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27005      | 15.84 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | C5505 *    | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27086A     | 15.65 | —             | —    | —            | —     | —                 | —     | —                  | —     | —                   | —    | —                | —    |
|                           | 1811A      | 12.35 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27269 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28269 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27846 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>9</b>                  | 28846 *    | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 22106      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27006      | 15.84 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | C5506 *    | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 7439A      | 15.36 | —             | —    | —            | —     | —                 | —     | —                  | —     | —                   | —    | —                | —    |
|                           | 27087A     | 15.65 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 27535 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                           | 28535 *    | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▴ Quad

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## Multi-conductor and Paired Cable

Less than 25 Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |       | Overall Beldfoil® |      | Overall Foil/Braid |      | Individual Beldfoil |      | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|-------|-------------------|------|--------------------|------|---------------------|------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page  | Part No.          | Page | Part No.           | Page | Part No.            | Page | Part No.         | Page |
| <b>14 AWG (continued)</b> |            |       |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>9</b><br>(cont'd)      | 22107      | 15.82 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27007      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>10</b>                 | 27088A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27249*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28249*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27847*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28847*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 22108      | 15.82 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27008      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | C5508*     | 15.89 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>11</b>                 | 27089A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27009      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>12</b>                 | 8629       | 4.7   | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 7440A      | 15.36 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27090A     | 15.65 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27250*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28250*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27848*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28848*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 22110      | 15.82 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>13</b>                 | 27091A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27011      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>14</b>                 | 27092A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27012      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>15</b>                 | 27093A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27251*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28251*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27849*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28849*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27013      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>16</b>                 | C5513*     | 15.89 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27094A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>17</b>                 | 22114      | 15.82 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27014      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>18</b>                 | 27095A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27015      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>19</b>                 | 27096A     | 15.65 | —             | —    | 7141AS       | 15.31 | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27016      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>20</b>                 | 27097A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27969*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28969*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27017      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>21</b>                 | 27098A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27252*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28252*     | 15.70 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27850*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 28850*     | 15.73 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 22118      | 15.82 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27018      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
| <b>22</b>                 | C5518*     | 15.89 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27099A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>23</b>                 | 27019      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27100A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>24</b>                 | 27020      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27101A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>25</b>                 | 27021      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           | 27102A     | 15.65 | —             | —    | —            | —     | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>26</b>                 | 27022      | 15.84 |               |      |              |       |                   |      |                    |      |                     |      |                  |      |
|                           |            |       |               |      |              |       |                   |      |                    |      |                     |      |                  |      |

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| No. of Conductors | Unshielded |       | Spiral Shield |      | Braid Shield |       | Overall Beldfoil® |       | Overall Foil/Braid |       | Individual Beldfoil |      | Individual Braid |      |
|-------------------|------------|-------|---------------|------|--------------|-------|-------------------|-------|--------------------|-------|---------------------|------|------------------|------|
|                   | Part No.   | Page  | Part No.      | Page | Part No.     | Page  | Part No.          | Page  | Part No.           | Page  | Part No.            | Page | Part No.         | Page |
| <b>12 AWG</b>     |            |       |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>2</b>          | 8673       | 4.8   | —             | —    | —            | —     | 9583▼             | 4.33  | 83802              | 4.34  | —                   | —    | —                | —    |
|                   | 9582▼      | 4.33  |               |      |              |       | 8718              | 5.22  |                    |       |                     |      |                  |      |
|                   | 27109A     | 15.66 |               |      |              |       |                   | 12.16 |                    |       |                     |      |                  |      |
|                   | 27641A     | 15.66 |               |      |              |       | 9312              | 15.51 |                    |       |                     |      |                  |      |
|                   | 9718       | 12.33 |               |      |              |       | 9344              | 15.61 |                    |       |                     |      |                  |      |
|                   |            | 14.17 |               |      |              |       | 3103A             | 15.61 |                    |       |                     |      |                  |      |
|                   | 1860A      | 12.35 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 8477       | 5.9   |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   |            | 12.36 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27254*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28254*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27853*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28853*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 22120      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27029      | 15.85 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | C5530*     | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | C5730*     | 15.92 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 9412       | 15.51 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 9489       | 15.61 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>3</b>          | 7444A      | 15.36 | —             | —    | —            | —     | 3102A†            | 15.51 | 83803              | 4.34  | —                   | —    | —                | —    |
|                   | 27110A     | 15.66 |               |      |              |       | 3104A†            | 15.61 |                    |       |                     |      |                  |      |
|                   | 27255*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28255*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27854*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28854*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 22121      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27030      | 15.85 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | C5531*     | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | C5731*     | 15.92 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   |            |       |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>4</b>          | 7145A      | 15.32 | —             | —    | 7445AS       | 15.36 | —                 | —     | 83804              | 4.34  | —                   | —    | —                | —    |
|                   | 7445A      | 15.36 |               |      |              |       |                   |       | 29502              | 15.28 |                     |      |                  |      |
|                   | 27111A     | 15.66 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27256*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28256*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27855*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28855*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 22122      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27031      | 15.85 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | C5532*     | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | C5732*     | 15.92 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>5</b>          | 27112A     | 15.66 | —             | —    | —            | —     | —                 | —     | —                  | —     | —                   | —    | —                | —    |
|                   | 27271*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28271*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27856*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28856*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 22123      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27032      | 15.85 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
| <b>6</b>          | C5533*     | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27113A     | 15.66 | —             | —    | —            | —     | —                 | —     | 83806              | 4.34  | —                   | —    | —                | —    |
|                   | 27272*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28272*     | 15.70 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27857*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 28857*     | 15.73 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 22124      | 15.82 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | 27033      | 15.85 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |
|                   | C5534*     | 15.89 |               |      |              |       |                   |       |                    |       |                     |      |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◻ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Multi-conductor and Paired Cable

Less than 25 Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |      | Overall Foil/Braid |      | Individual Beldfoil |      | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|------|-------------------|------|--------------------|------|---------------------|------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page | Part No.           | Page | Part No.            | Page | Part No.         | Page |
| <b>12 AWG (continued)</b> |            |       |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 7                         | 27114A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27273*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28273*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27858*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28858*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22125      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27034      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5535*     | 15.89 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 8                         | 27115A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27274*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28274*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27859*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28859*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22126      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27035      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5536*     | 15.89 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 9                         | 27116A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27538*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28538*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22127      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 10                        | 27117A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27275*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28275*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27860*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28860*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22128      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27037      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5538*     | 15.89 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 11                        | 27118A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27038      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 12                        | 27119A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27276*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28276*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27861*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28861*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22130      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27039      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5540*     | 15.89 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 13                        | 27120A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27040      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 14                        | 27121A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27041      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 15                        | 27122A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27277*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28277*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27862*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28862*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27042      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5543*     | 15.89 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 16                        | 27123A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 22134      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27043      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 17                        | 27124A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27044      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 18                        | 27125A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27045      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 19                        | 27126A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27539*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28539*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27046      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

■ Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.



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| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |       | Overall Beldfoil® |      | Overall Foil/Braid |       | Individual Beldfoil |      | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|-------|-------------------|------|--------------------|-------|---------------------|------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page  | Part No.          | Page | Part No.           | Page  | Part No.            | Page | Part No.         | Page |
| <b>12 AWG (continued)</b> |            |       |               |      |              |       |                   |      |                    |       |                     |      |                  |      |
| 20                        | 27127A     | 15.66 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27278*     | 15.70 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28278*     | 15.70 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27863*     | 15.73 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28863*     | 15.73 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 22138      | 15.82 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27047      | 15.85 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5548*     | 15.89 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 21                        | 27128A     | 15.66 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27048      | 15.85 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 22                        | 27129A     | 15.66 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27049      | 15.85 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 23                        | 27130A     | 15.66 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27050      | 15.85 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 24                        | 27131A     | 15.66 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27051      | 15.85 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>10 AWG</b>             |            |       |               |      |              |       |                   |      |                    |       |                     |      |                  |      |
| 2                         | 8678       | 4.8   | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27138A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27643A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27257*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28257*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27866*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28866*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 22140      | 15.82 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27058      | 15.86 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5560*     | 15.90 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5760*     | 15.92 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 3                         | 27139A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27258*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28258*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27867*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28867*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 22141      | 15.82 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27059      | 15.86 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5561*     | 15.90 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5761*     | 15.92 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 4                         | 7147A      | 15.32 | —             | —    | 7447AS       | 15.37 | —                 | —    | 29503              | 15.28 | —                   | —    | —                | —    |
|                           | 7447A      | 15.37 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27140A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27259*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28259*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27868*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28868*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 22142      | 15.82 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27060      | 15.86 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5562*     | 15.90 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5762*     | 15.92 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 5                         | 27141A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27281*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28281*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27869*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28869*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 22143      | 15.82 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27061      | 15.86 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | C5563*     | 15.90 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| 6                         | 27142A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27282*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28282*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 27870*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                           | 28870*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▴ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Multi-conductor and Paired Cable

Less than 25 Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |      | Overall Foil/Braid |      | Individual Beldfoil |      | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|------|-------------------|------|--------------------|------|---------------------|------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page | Part No.           | Page | Part No.            | Page | Part No.         | Page |
| <b>10 AWG (continued)</b> |            |       |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>6</b><br>(cont'd)      | 27062      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5564*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>7</b>                  | 27143A     | 15.67 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27283*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28283*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27877*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28877*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22145      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27063      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5565*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>8</b>                  | 27144A     | 15.67 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27284*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28284*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27878*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28878*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22146      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27064      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5566*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>9</b>                  | 27145A     | 15.67 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27541*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28541*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22147      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27065      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>10</b>                 | 27146A     | 15.67 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27285*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28285*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27879*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28879*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22148      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27066      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5568*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>11</b>                 | 27147A     | 15.67 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27067      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>12</b>                 | 27148A     | 15.67 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27286*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28286*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27880*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28880*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 22150      | 15.82 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27068      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5570*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>13</b>                 | 27069      | 15.86 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>14</b>                 | 22152      | 15.82 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27070      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>15</b>                 | 27287*     | 15.71 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 28287*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27881*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28881*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27071      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5573*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>16</b>                 | 22154      | 15.82 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27072      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| <b>17</b>                 | 27073      | 15.86 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>18</b>                 | 27074      | 15.86 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>19</b>                 | 27075      | 15.86 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>20</b>                 | 27288*     | 15.71 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 28288*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27882*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28882*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27076      | 15.86 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5578*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▴ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.



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| No. of Conductors | Unshielded |       | Spiral Shield |      | Braid Shield |       | Overall Beldfoil® |      | Overall Foil/Braid |       | Individual Beldfoil |      | Individual Braid |      |
|-------------------|------------|-------|---------------|------|--------------|-------|-------------------|------|--------------------|-------|---------------------|------|------------------|------|
|                   | Part No.   | Page  | Part No.      | Page | Part No.     | Page  | Part No.          | Page | Part No.           | Page  | Part No.            | Page | Part No.         | Page |
| <b>8 AWG</b>      |            |       |               |      |              |       |                   |      |                    |       |                     |      |                  |      |
| <b>2</b>          | 27149A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27291*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28291*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27871*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28871*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 22160      | 15.83 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27077      | 15.86 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | C5583*     | 15.90 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>3</b>          | 7449A      | 15.37 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27150A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27260*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28260*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27872*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28872*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 22161      | 15.83 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27078      | 15.86 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>4</b>          | 7450A      | 15.37 | —             | —    | 7450AS       | 15.37 | —                 | —    | 29504              | 15.28 | —                   | —    | —                | —    |
|                   | 27151A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27261*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28261*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27873*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28873*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 22162      | 15.83 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27079      | 15.86 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>6 AWG</b>      | 74582*     | 15.90 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | C5582*     | 15.92 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>2</b>          | 27152A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27293*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28293*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27874*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28874*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 22170      | 15.83 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | C5590*     | 15.93 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>3</b>          | 7152A      | 15.32 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27153A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27262*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28262*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27875*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28875*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 22171      | 15.83 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | C5591*     | 15.93 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>4</b>          | 7453A      | 15.37 | —             | —    | —            | —     | —                 | —    | 29505              | 15.28 | —                   | —    | —                | —    |
|                   | 27154A     | 15.67 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27263*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28263*     | 15.71 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27876*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28876*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | C5592*     | 15.93 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>4 AWG</b>      |            |       |               |      |              |       |                   |      |                    |       |                     |      |                  |      |
| <b>2</b>          | 27155A     | 15.68 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 22180      | 15.83 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>3</b>          | 27156A     | 15.68 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27264*     | 15.72 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28264*     | 15.72 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 27894*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 28894*     | 15.74 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                   | 22181      | 15.83 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>4</b>          | C5601*     | 15.93 | —             | —    | —            | —     | —                 | —    | —                  | —     | —                   | —    | —                | —    |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▫ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Multi-conductor and Paired Cable

Less than 25 Conductors

| No. of Conductors        | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |      | Overall Foil/Braid |       | Individual Beldfoil |      | Individual Braid |      |
|--------------------------|------------|-------|---------------|------|--------------|------|-------------------|------|--------------------|-------|---------------------|------|------------------|------|
|                          | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page | Part No.           | Page  | Part No.            | Page | Part No.         | Page |
| <b>4 AWG (continued)</b> |            |       |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>4</b>                 | 27157A     | 15.68 | —             | —    | —            | —    | —                 | —    | 29506              | 15.28 | —                   | —    | —                | —    |
|                          | 27265*     | 15.72 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 28265*     | 15.72 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 27895*     | 15.74 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 28895*     | 15.74 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | C5602*     | 15.93 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>3 AWG</b>             |            |       |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>3</b>                 | 27896*     | 15.74 | —             | —    | —            | —    | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                          | 28896*     | 15.74 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | C5611*     | 15.93 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>2 AWG</b>             |            |       |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>2</b>                 | 27158A     | 15.68 | —             | —    | —            | —    | —                 | —    | —                  | —     | —                   | —    | —                | —    |
| <b>3</b>                 | 7158A      | 15.32 | —             | —    | —            | —    | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                          | 27159A     | 15.68 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 27267*     | 15.72 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 28267*     | 15.72 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 27888*     | 15.75 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 28888*     | 15.75 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>4</b>                 | 27160A     | 15.68 | —             | —    | —            | —    | —                 | —    | 29507              | 15.28 | —                   | —    | —                | —    |
|                          | 27268*     | 15.72 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 28268*     | 15.72 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 27889*     | 15.75 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | 28889*     | 15.75 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
|                          | C5622*     | 15.93 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>1 AWG</b>             |            |       |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>3</b>                 | 27161A     | 15.68 | —             | —    | —            | —    | —                 | —    | —                  | —     | —                   | —    | —                | —    |
|                          | C5625*     | 15.94 |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>1/0 AWG</b>           |            |       |               |      |              |      |                   |      |                    |       |                     |      |                  |      |
| <b>3</b>                 | C5627*     | 15.94 | —             | —    | —            | —    | —                 | —    | —                  | —     | —                   | —    | —                | —    |

\*Armored

†Triad

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## 25 or More Conductors

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|---------------------------|--------------------------------------------------------------------------------------|--------------------------------|---------------|------|--------------|------|-----------------------------------------|--------------------------------------|------------------------------|---------------------------------------|----------------------------------------------------------------|-------------------------|--------------------|-------|
|                           | Part No.                                                                             | Page                           | Part No.      | Page | Part No.     | Page | Part No.                                | Page                                 | Part No.                     | Page                                  | Part No.                                                       | Page                    | Part No.           | Page  |
| <b>25 AWG and smaller</b> |                                                                                      |                                |               |      |              |      |                                         |                                      |                              |                                       |                                                                |                         |                    |       |
| 25                        | —                                                                                    | —                              | —             | —    | —            | —    | 8142FO                                  | 5.14                                 | 9637<br>8142                 | 4.16<br>5.27<br>12.55                 | —                                                              | —                       | —                  | —     |
| 26                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | 9813                         | 5.26                                  | —                                                              | —                       | —                  | —     |
| 32                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 7893A <sup>■</sup>                                             | 12.29                   | 7886A <sup>▶</sup> | 12.18 |
| 36                        | —                                                                                    | —                              | —             | —    | —            | —    | 8148FO                                  | 5.14                                 | 8148<br>9819                 | 5.27<br>5.26                          | —                                                              | —                       | —                  | —     |
| 48                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | —                                                              | —                       | 7887A <sup>▶</sup> | 12.18 |
| 50                        | —                                                                                    | —                              | —             | —    | —            | —    | 8155FO                                  | 5.14                                 | 9825<br>8155<br>1401A        | 5.26<br>5.27<br>11.23                 | —                                                              | —                       | —                  | —     |
| 62                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | 9814                         | 5.26                                  | —                                                              | —                       | —                  | —     |
| 64                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | —                                                              | —                       | 7888A <sup>▶</sup> | 12.18 |
| 68                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | 1403A                        | 11.23                                 | —                                                              | —                       | —                  | —     |
| 96                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | —                                                              | —                       | 7889A <sup>▶</sup> | 12.18 |
| <b>24 AWG</b>             |                                                                                      |                                |               |      |              |      |                                         |                                      |                              |                                       |                                                                |                         |                    |       |
| 25                        | —                                                                                    | —                              | —             | —    | —            | —    | 9543<br>9684<br>1424A<br>82512<br>88112 | 4.11<br>5.15<br>5.15<br>5.49<br>5.50 | 9617<br>9937<br>8342<br>8112 | 4.17<br>4.18<br>5.29<br>5.31<br>12.55 | —                                                              | —                       | —                  | —     |
| 30                        | —                                                                                    | —                              | —             | —    | —            | —    | 9544<br>9515<br>1425A                   | 4.11<br>5.12<br>5.15                 | 8345<br>8115                 | 5.29<br>5.31                          | 9735<br>8175 <sup>■</sup>                                      | 5.35<br>12.30<br>5.45   | —                  | —     |
| 32                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 1412R <sup>■</sup><br>1514C <sup>■</sup><br>1850F <sup>■</sup> | 12.19<br>12.20<br>12.29 | 1916A              | 12.21 |
| 34                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 9736                                                           | 5.35<br>12.30           | —                  | —     |
| 36                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | 8348<br>9837<br>8118         | 5.29<br>5.30<br>5.31                  | 8178 <sup>■</sup><br>89758                                     | 5.45<br>5.53<br>12.31   | —                  | —     |
| 37                        | —                                                                                    | —                              | —             | —    | —            | —    | 88118                                   | 5.50                                 | 9618<br>9938                 | 4.17<br>4.18                          | —                                                              | —                       | —                  | —     |
| 38                        | —                                                                                    | —                              | —             | —    | —            | —    | 9519                                    | 5.12                                 | —                            | —                                     | 9737                                                           | 5.35<br>12.30           | —                  | —     |
| 40                        | —                                                                                    | —                              | —             | —    | —            | —    | 9545                                    | 4.11                                 | —                            | —                                     | 1413R <sup>■</sup><br>1515C <sup>■</sup>                       | 12.19<br>12.20          | —                  | —     |
| 48                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 1414R <sup>■</sup><br>1516C <sup>■</sup><br>1852F <sup>■</sup> | 12.19<br>12.20<br>12.29 | 1924A              | 12.21 |
| 50                        | 9585 <sup>▼</sup><br>1864A <sup>▼</sup><br>1871A <sup>▼</sup><br>1232A1 <sup>▼</sup> | 5.4<br>11.12<br>11.12<br>11.13 | —             | —    | —            | —    | 9546<br>9525<br>88125                   | 4.11<br>5.12<br>5.50                 | 9619<br>8355<br>9838<br>8125 | 4.17<br>5.29<br>5.30<br>5.31          | 9995<br>8185 <sup>■</sup>                                      | 5.37<br>5.45            | —                  | —     |
| 52                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 1415R <sup>■</sup><br>1517C <sup>■</sup>                       | 12.19<br>12.20          | —                  | —     |
| 54                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 9738                                                           | 5.35<br>12.30           | —                  | —     |
| 64                        | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 1416R <sup>■</sup><br>1518C <sup>■</sup><br>1854F <sup>■</sup> | 12.19<br>12.20<br>12.29 | 1932A              | 12.21 |
| 100                       | —                                                                                    | —                              | —             | —    | —            | —    | 9550                                    | 5.12                                 | —                            | —                                     | —                                                              | —                       | —                  | —     |
| 104                       | —                                                                                    | —                              | —             | —    | —            | —    | —                                       | —                                    | —                            | —                                     | 1519C <sup>■</sup>                                             | 12.24                   | —                  | —     |
| <b>22 AWG</b>             |                                                                                      |                                |               |      |              |      |                                         |                                      |                              |                                       |                                                                |                         |                    |       |
| 25                        | 8459                                                                                 | 4.4                            | —             | —    | —            | —    | —                                       | —                                    | 9948<br>8312                 | 4.19<br>5.32                          | —                                                              | —                       | —                  | —     |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▶ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.



# Multi-conductor and Paired Cable

## 25 or More Conductors

| No. of Conductors         | Unshielded     |                | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |                | Overall Foil/Braid |              | Individual Beldfoil                                                                            |                                                                               | Individual Braid |      |
|---------------------------|----------------|----------------|---------------|------|--------------|------|-------------------|----------------|--------------------|--------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------|------|
|                           | Part No.       | Page           | Part No.      | Page | Part No.     | Page | Part No.          | Page           | Part No.           | Page         | Part No.                                                                                       | Page                                                                          | Part No.         | Page |
| <b>22 AWG (continued)</b> |                |                |               |      |              |      |                   |                |                    |              |                                                                                                |                                                                               |                  |      |
| 30                        | 9432<br>8749   | 4.4<br>5.5     | —             | —    | —            | —    | 9315▼<br>9524     | 5.17<br>15.41  | 8315               | 5.32         | 8766▼<br>8776                                                                                  | 5.37<br>5.40<br>12.24                                                         | —                | —    |
| 32                        | —              | —              | —             | —    | —            | —    | 3010A             | 15.41          | —                  | —            | 3011A■<br>1819R■<br>1222B                                                                      | 15.42<br>12.22<br>12.23                                                       | —                | —    |
| 34                        | —              | —              | —             | —    | —            | —    | —                 | —              | —                  | —            | 9769                                                                                           | 5.40<br>12.24                                                                 | —                | —    |
| 36                        | —              | —              | —             | —    | —            | —    | 9772†             | 4.20           | 8318               | 5.32         | —                                                                                              | —                                                                             | —                | —    |
| 37                        | —              | —              | —             | —    | —            | —    | —                 | —              | 9949               | 4.19         | —                                                                                              | —                                                                             | —                | —    |
| 38                        | 9748           | 5.5            | —             | —    | —            | —    | 9319▼<br>9526     | 5.17<br>15.41  | —                  | —            | 8769<br>9335                                                                                   | 12.24<br>5.40<br>15.42                                                        | —                | —    |
| 40                        | 9433           | 4.4            | —             | —    | —            | —    | —                 | —              | —                  | —            | 1820R■<br>1225B                                                                                | 12.22<br>12.23                                                                | —                | —    |
| 48                        | —              | —              | —             | —    | —            | —    | 3012A             | 15.41          | —                  | —            | 3013A■<br>1821R■<br>1427B                                                                      | 15.42<br>12.22<br>12.23                                                       | —                | —    |
| 50                        | 9434           | 4.4            | —             | —    | —            | —    | —                 | —              | 9950<br>8325       | 4.19<br>5.32 | —                                                                                              | —                                                                             | —                | —    |
| 52                        | —              | —              | —             | —    | —            | —    | —                 | —              | —                  | —            | 1822R■                                                                                         | 12.22                                                                         | —                | —    |
| 54                        | 8750           | 5.5            | —             | —    | —            | —    | 9327▼<br>9527     | 5.17<br>15.41  | —                  | —            | 8773                                                                                           | 5.40<br>12.24                                                                 | —                | —    |
| 56                        | —              | —              | —             | —    | —            | —    | —                 | —              | —                  | —            | 1221B                                                                                          | 12.23                                                                         | —                | —    |
| 64                        | —              | —              | —             | —    | —            | —    | —                 | —              | —                  | —            | 1823R■<br>1226B                                                                                | 12.22<br>12.23                                                                | —                | —    |
| 74                        | —              | —              | —             | —    | —            | —    | —                 | —              | —                  | —            | 9767                                                                                           | 12.24<br>5.40                                                                 | —                | —    |
| 76                        | —              | —              | —             | —    | —            | —    | 8752▼             | 5.18           | —                  | —            | —                                                                                              | —                                                                             | —                | —    |
| 100                       | —              | —              | —             | —    | —            | —    | 3014A             | 15.41          | —                  | —            | 3015A■                                                                                         | 15.42                                                                         | —                | —    |
| 102                       | —              | —              | —             | —    | —            | —    | 8751▼<br>9551     | 5.17<br>15.41  | —                  | —            | 9337                                                                                           | 15.42                                                                         | —                | —    |
| 104                       | —              | —              | —             | —    | —            | —    | —                 | —              | —                  | —            | 1428B                                                                                          | 12.23                                                                         | —                | —    |
| <b>20 AWG</b>             |                |                |               |      |              |      |                   |                |                    |              |                                                                                                |                                                                               |                  |      |
| 25                        | 7108A<br>7408A | 15.30<br>15.33 | —             | —    | —            | —    | —                 | —              | —                  | —            | —                                                                                              | —                                                                             | —                | —    |
| 30                        | 9755           | 5.7            | —             | —    | —            | —    | —                 | —              | —                  | —            | 9879                                                                                           | 5.42                                                                          | —                | —    |
| 32                        | —              | —              | —             | —    | —            | —    | 1059A             | 15.43          | —                  | —            | 1079A■<br>1009A■<br>1015A■<br>22643■<br>23532*■<br>26536**                                     | 15.43<br>15.53<br>15.53<br>15.76<br>15.78<br>15.78                            | —                | —    |
| 36                        | —              | —              | —             | —    | —            | —    | 3022A†            | 15.44          | —                  | —            | 1085A†■<br>23571*†■<br>26553*†■                                                                | 15.44<br>15.78<br>15.78                                                       | —                | —    |
| 40                        | —              | —              | —             | —    | —            | —    | —                 | —              | —                  | —            | 1091A■                                                                                         | 15.43                                                                         | —                | —    |
| 48                        | —              | —              | —             | —    | —            | —    | 3023A†<br>1060A   | 15.44<br>15.43 | —                  | —            | 1092A†■<br>22673†■<br>23549*†■<br>26543*†■<br>1080A■<br>1016A■<br>22647■<br>23506*■<br>26537** | 15.44<br>15.76<br>15.78<br>15.78<br>15.43<br>15.53<br>15.76<br>15.78<br>15.78 | —                | —    |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

♦ Quad



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# Multi-conductor and Paired Cable

## 25 or More Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |       | Overall Beldfoil® |       | Overall Foil/Braid |      | Individual Beldfoil |       | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|-------|-------------------|-------|--------------------|------|---------------------|-------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page  | Part No.          | Page  | Part No.           | Page | Part No.            | Page  | Part No.         | Page |
| <b>20 AWG (continued)</b> |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 60                        | —          | —     | —             | —    | —            | —     | —                 | —     | —                  | —    | 1086A†■             | 15.44 | —                | —    |
| 72                        | —          | —     | —             | —    | —            | —     | 3024A†            | 15.44 | —                  | —    | 3067A†■             | 15.44 | —                | —    |
|                           |            |       |               |      |              |       | 1061A             | 15.43 |                    |      | 22674†■             | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23550*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26544*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1081A■              | 15.43 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1017A■              | 15.53 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22670■              | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23544*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26538*■             | 15.78 |                  |      |
| 100                       | —          | —     | —             | —    | —            | —     | 1062A             | 15.43 | —                  | —    | 1082A■              | 15.43 | —                | —    |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23575*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26546*■             | 15.78 |                  |      |
| <b>18 AWG</b>             |            |       |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 25                        | 9626       | 4.6   | —             | —    | 7117AS       | 15.30 | —                 | —     | —                  | —    | —                   | —     | —                | —    |
|                           | 7117A      | 15.30 |               |      | 7417AS       | 15.34 |                   |       |                    |      |                     |       |                  |      |
|                           | 7417A      | 15.34 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 27611A     | 15.63 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 29053*     | 15.88 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 30                        | 27612A     | 15.63 | —             | —    | —            | —     | 9565              | 15.45 | —                  | —    | 9777                | 5.42  | —                | —    |
|                           | 29058*     | 15.88 |               |      |              |       |                   |       |                    |      | 9392                | 15.45 |                  |      |
|                           | 9742       | 5.8   |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 32                        | —          | —     | —             | —    | —            | —     | 3034A             | 15.46 | —                  | —    | 3035A■              | 15.46 | —                | —    |
|                           |            |       |               |      |              |       | 1067A             | 15.56 |                    |      | 1052A■              | 15.56 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22654■              | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23519*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26520*■             | 15.78 |                  |      |
| 34                        | 7118A      | 15.30 | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
|                           | 7418A      | 15.34 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 36                        | —          | —     | —             | —    | —            | —     | —                 | —     | —                  | —    | 3068A†■             | 15.47 | —                | —    |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1095A†■             | 15.57 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23512*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26527*†■            | 15.78 |                  |      |
| 37                        | 27613A     | 15.63 | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
| 38                        | 9743       | 5.8   | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
| 40                        | 29068*     | 15.88 | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
| 41                        | 7419A      | 15.34 | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
| 48                        | —          | —     | —             | —    | —            | —     | 3036A†            | 15.47 | —                  | —    | 3037A†■             | 15.47 | —                | —    |
|                           |            |       |               |      |              |       | 1471A             | 15.46 |                    |      | 3066A†■             | 15.57 |                  |      |
|                           |            |       |               |      |              |       | 1068A             | 15.56 |                    |      | 22681†■             | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22683†■             | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23537*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26528*†■            | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1480A■              | 15.46 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 1053A■              | 15.56 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22637■              | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 23542*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 26521*■             | 15.78 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22419■              | 15.80 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 24520*■             | 15.81 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 25517*■             | 15.81 |                  |      |
| 50                        | 7142A      | 15.31 | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
|                           | 27614A     | 15.63 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
|                           | 29078*     | 15.88 |               |      |              |       |                   |       |                    |      |                     |       |                  |      |
| 60                        | 27632A     | 15.63 | —             | —    | —            | —     | —                 | —     | —                  | —    | —                   | —     | —                | —    |
| 72                        | —          | —     | —             | —    | —            | —     | 3038A†            | 15.47 | —                  | —    | 3039A†■             | 15.47 | —                | —    |
|                           |            |       |               |      |              |       | 1472A             | 15.46 |                    |      | 1096A†■             | 15.57 |                  |      |
|                           |            |       |               |      |              |       | 1087A             | 15.56 |                    |      | 22682†■             | 15.76 |                  |      |
|                           |            |       |               |      |              |       |                   |       |                    |      | 22684†■             | 15.76 |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◻ Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.



# Multi-conductor and Paired Cable

## 25 or More Conductors

| No. of Conductors         | Unshielded                                 |                                         | Spiral Shield |      | Braid Shield |      | Overall Beldfoil®        |                         | Overall Foil/Braid |      | Individual Beldfoil                                                                                                            |                                                                                                          | Individual Braid |      |
|---------------------------|--------------------------------------------|-----------------------------------------|---------------|------|--------------|------|--------------------------|-------------------------|--------------------|------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|------|
|                           | Part No.                                   | Page                                    | Part No.      | Page | Part No.     | Page | Part No.                 | Page                    | Part No.           | Page | Part No.                                                                                                                       | Page                                                                                                     | Part No.         | Page |
| <b>18 AWG (continued)</b> |                                            |                                         |               |      |              |      |                          |                         |                    |      |                                                                                                                                |                                                                                                          |                  |      |
| 72<br>(cont'd)            |                                            |                                         |               |      |              |      |                          |                         |                    |      | 23536*†■                                                                                                                       | 15.78                                                                                                    |                  |      |
|                           |                                            |                                         |               |      |              |      |                          |                         |                    |      | 26529*†■                                                                                                                       | 15.78                                                                                                    |                  |      |
|                           |                                            |                                         |               |      |              |      |                          |                         |                    |      | 1481A■                                                                                                                         | 15.46                                                                                                    |                  |      |
|                           |                                            |                                         |               |      |              |      |                          |                         |                    |      | 1054A■                                                                                                                         | 15.56                                                                                                    |                  |      |
|                           |                                            |                                         |               |      |              |      |                          |                         |                    |      | 23554*■                                                                                                                        | 15.78                                                                                                    |                  |      |
|                           |                                            |                                         |               |      |              |      |                          |                         |                    |      | 26555*■                                                                                                                        | 15.78                                                                                                    |                  |      |
| 100                       | —                                          | —                                       | —             | —    | —            | —    | 3041A<br>1088A           | 15.46<br>15.56          | —                  | —    | 3042A■<br>1038A■                                                                                                               | 15.46<br>15.56                                                                                           | —                | —    |
| <b>16 AWG</b>             |                                            |                                         |               |      |              |      |                          |                         |                    |      |                                                                                                                                |                                                                                                          |                  |      |
| 25                        | 9622<br>7129A<br>27324A<br>29024*<br>7429A | 4.6<br>15.31<br>15.64<br>15.88<br>15.35 | —             | —    | —            | —    | —                        | —                       | —                  | —    | —                                                                                                                              | —                                                                                                        | —                | —    |
| 30                        | 27626A<br>29008*                           | 15.64<br>15.88                          | —             | —    | —            | —    | —                        | —                       | —                  | —    | —                                                                                                                              | —                                                                                                        | —                | —    |
| 32                        | —                                          | —                                       | —             | —    | —            | —    | 3050A<br>1073A           | 15.48<br>15.58          | —                  | —    | 3051A■<br>1043A■<br>22685■<br>23539*■<br>26507*■                                                                               | 15.48<br>15.58<br>15.77<br>15.79<br>15.79                                                                | —                | —    |
| 34                        | 7130A<br>7430A                             | 15.31<br>15.35                          | —             | —    | —            | —    | —                        | —                       | —                  | —    | —                                                                                                                              | —                                                                                                        | —                | —    |
| 36                        | —                                          | —                                       | —             | —    | —            | —    | —                        | —                       | —                  | —    | 3069A†■<br>1099A†■<br>22690†■<br>23541*†■<br>26513*†■                                                                          | 15.49<br>15.59<br>15.77<br>15.79<br>15.79                                                                | —                | —    |
| 37                        | 27627A                                     | 15.64                                   | —             | —    | —            | —    | —                        | —                       | —                  | —    | —                                                                                                                              | —                                                                                                        | —                | —    |
| 40                        | 29009*                                     | 15.88                                   | —             | —    | —            | —    | —                        | —                       | —                  | —    | 1044A■                                                                                                                         | 15.58                                                                                                    | —                | —    |
| 48                        | —                                          | —                                       | —             | —    | —            | —    | 3052A†<br>1489A<br>1074A | 15.49<br>15.48<br>15.58 | —                  | —    | 3053A†■<br>3118A†■<br>23567*†■<br>26545*†■<br>1498A■<br>1045A■<br>22686■<br>23538*■<br>26508*■<br>22447■<br>24510*■<br>25519*■ | 15.49<br>15.59<br>15.79<br>15.79<br>15.48<br>15.58<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81 | —                | —    |
| 50                        | 7132A<br>27628A<br>29016*                  | 15.31<br>15.64<br>15.88                 | —             | —    | —            | —    | —                        | —                       | —                  | —    | —                                                                                                                              | —                                                                                                        | —                | —    |
| 60                        | 27633A<br>29025*                           | 15.64<br>15.88                          | —             | —    | —            | —    | —                        | —                       | —                  | —    | —                                                                                                                              | —                                                                                                        | —                | —    |
| 72                        | —                                          | —                                       | —             | —    | —            | —    | 3054A†<br>1490A<br>1089A | 15.49<br>15.48<br>15.58 | —                  | —    | 3055A†■<br>1100A†■<br>23578*†■<br>26547*†■<br>1499A■<br>1046A■<br>23568*■<br>26551*■                                           | 15.49<br>15.59<br>15.79<br>15.79<br>15.48<br>15.58<br>15.79<br>15.79                                     | —                | —    |
| 100                       | —                                          | —                                       | —             | —    | —            | —    | 3056A<br>1090A           | 15.48<br>15.58          | —                  | —    | 3057A■<br>1047A■                                                                                                               | 15.48<br>15.58                                                                                           | —                | —    |
| 108                       | —                                          | —                                       | —             | —    | —            | —    | —                        | —                       | —                  | —    | 3130A†■                                                                                                                        | 15.59                                                                                                    | —                | —    |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

■ Quad



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## Multi-conductor and Paired Cable

### 25 or More Conductors

| No. of Conductors | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |      | Overall Foil/Braid |      | Individual Beldfoil |      | Individual Braid |      |
|-------------------|------------|-------|---------------|------|--------------|------|-------------------|------|--------------------|------|---------------------|------|------------------|------|
|                   | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page | Part No.           | Page | Part No.            | Page | Part No.         | Page |
| <b>14 AWG</b>     |            |       |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 25                | 7142A      | 15.31 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 7442A      | 15.36 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27103A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27270*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28270*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27851*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28851*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27023      | 15.84 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 26                | C5503*     | 15.89 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27104A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 27                | 27024      | 15.84 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27105A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 28                | 27025      | 15.84 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27106A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 29                | 27026      | 15.84 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27107A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 30                | 27027      | 15.84 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27108A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27253*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28253*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27852*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28852*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27028      | 15.84 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | C5528*     | 15.89 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 37                | 27629A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27292*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28292*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27830      | 15.84 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 40                | 27433*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28433*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27885*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28885*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | C5529*     | 15.89 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 50                | 27912A     | 15.65 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27434*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28434*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27886*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28886*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | C6064*     | 15.89 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>12 AWG</b>     |            |       |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 25                | 27132A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27279*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28279*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27864*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28864*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27052      | 15.85 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | C5553*     | 15.89 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 26                | 27133A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 27                | 27134A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27054      | 15.85 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 28                | 27135A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27055      | 15.85 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 29                | 27136A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27056      | 15.85 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| 30                | 27137A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27280*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28280*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27865*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 28865*     | 15.73 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | 27057      | 15.85 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                   | C5558*     | 15.89 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◐ Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Multi-conductor and Paired Cable

### 25 or More Conductors

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |      | Overall Foil/Braid |      | Individual Beldfoil |      | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|------|-------------------|------|--------------------|------|---------------------|------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page | Part No.           | Page | Part No.            | Page | Part No.         | Page |
| <b>12 AWG</b> (continued) |            |       |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 37                        | 27630A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 27540*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28540*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27831      | 15.85 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 40                        | 27432*     | 15.70 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 28432*     | 15.70 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27887*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28887*     | 15.73 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 50                        | 27634A     | 15.66 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
| <b>10 AWG</b>             |            |       |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 25                        | 27289*     | 15.71 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 28289*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27883*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28883*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5579*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
| 30                        | 27290*     | 15.71 | —             | —    | —            | —    | —                 | —    | —                  | —    | —                   | —    | —                | —    |
|                           | 28290*     | 15.71 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 27884*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | 28884*     | 15.74 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |
|                           | C5580*     | 15.90 |               |      |              |      |                   |      |                    |      |                     |      |                  |      |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▸ Quad

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## Multi-conductor and Paired Cables

### Combination Gages (Unshielded, Shielded and Partially Shielded)

| No. of Conductors or Pairs | Part No. | Conductor/Gage Description                | Shielding                              | Page  |
|----------------------------|----------|-------------------------------------------|----------------------------------------|-------|
| <b>Combination Gages</b>   |          |                                           |                                        |       |
| <b>4</b>                   | 3084A    | 1pr — 24 AWG<br>1pr — 22 AWG              | Beldfoil® each pair plus braid overall | 15.22 |
|                            | 3084F    | 1pr — 24 AWG<br>1pr — 22 AWG              | Beldfoil each pair plus braid overall  | 15.22 |
|                            | 3085A    | 1pr — 24 AWG<br>1pr — 22 AWG              | Beldfoil each pair plus braid overall  | 15.22 |
|                            | 7895A    | 1pr — 20 AWG<br>1pr — 18 AWG              | Beldfoil each pair plus braid overall  | 15.22 |
|                            | 7900A    | 1pr — 18 AWG<br>1pr — 16 AWG              | Unshielded                             | 15.20 |
|                            | 7896A    | 1pr — 18 AWG<br>1pr — 16 AWG              | Beldfoil each pair plus braid overall  | 15.20 |
|                            | 7897A    | 1pr — 18 AWG<br>1pr — 15 AWG              | Beldfoil each pair plus braid overall  | 15.20 |
|                            | 3082A    | 1pr — 18 AWG<br>1pr — 15 AWG              | Beldfoil each pair plus braid overall  | 15.21 |
|                            | 3083A    | 1pr — 18 AWG<br>1pr — 15 AWG              | Beldfoil each pair plus braid overall  | 15.21 |
|                            | 3082F    | 1pr — 18 AWG<br>1pr — 15 AWG              | Beldfoil each pair plus braid overall  | 15.21 |
|                            | 3086A    | 1pr — 20 AWG<br>1pr — 16 AWG              | Individual Beldfoil each pair          | 15.23 |
|                            | 3124A    | 2c — 22 AWG<br>2c — 18 AWG                | Overall Beldfoil                       | 15.24 |
|                            | 3125A    | 2c — 22 AWG<br>2c — 16 AWG                | Overall Beldfoil                       | 15.24 |
|                            | 1502P    | 1pr — 22 AWG                              | Beldfoil                               | 12.39 |
|                            |          | 2c — 18 AWG                               | Unshielded                             |       |
|                            | 1502R    | 1pr — 22 AWG                              | Beldfoil                               | 12.39 |
|                            |          | 2c — 18 AWG                               | Unshielded                             |       |
|                            | 9155     | 1pr — 20 AWG                              | Beldfoil                               | 5.47  |
|                            |          | 1pr — 18 AWG                              | Unshielded                             |       |
| <b>6</b>                   | 8446     | 4c — 22 AWG<br>2c — 18 AWG                | Unshielded                             | 4.7   |
|                            | 9686     | 3c — 20 AWG<br>3c — 16 AWG                | Unshielded                             | 4.7   |
|                            | 8786     | 4c — 24 AWG<br>2c — 22 AWG                | Beldfoil over 4c, Unshielded           | 4.20  |
|                            | 3126A    | 2c — 22 AWG<br>2c — 16 AWG<br>2c — 12 AWG | Overall Beldfoil                       | 15.24 |
|                            | 27428*   | 3c — 14 AWG<br>3c — 12 AWG                | Unshielded                             | 15.72 |
|                            | 28428*   | 3c — 14 AWG<br>3c — 12 AWG                | Unshielded                             | 15.72 |
|                            | 27429*   | 3c — 14 AWG<br>3c — 10 AWG                | Unshielded                             | 15.72 |
|                            | 28429*   | 3c — 14 AWG<br>3c — 10 AWG                | Unshielded                             | 15.72 |
|                            | 27430*   | 3c — 14 AWG<br>3c — 8 AWG                 | Unshielded                             | 15.72 |
|                            | 28430*   | 3c — 14 AWG<br>3c — 8 AWG                 | Unshielded                             | 15.72 |
|                            | 27431*   | 3c — 14 AWG<br>3c — 6 AWG                 | Unshielded                             | 15.72 |

| No. of<br>Conductors<br>or Pairs | Part No. | Conductor/Gage<br>Description               | Shielding                                              | Page  |
|----------------------------------|----------|---------------------------------------------|--------------------------------------------------------|-------|
| Combination Gages                |          |                                             |                                                        |       |
| 6<br><i>(cont'd)</i>             | 28431 *  | 3c — 14 AWG<br>3c — 6 AWG                   | Unshielded                                             | 15.72 |
|                                  | 27890 *  | 3c — 14 AWG<br>3c — 12 AWG                  | Unshielded                                             | 15.75 |
|                                  | 28890 *  | 3c — 14 AWG<br>3c — 12 AWG                  | Unshielded                                             | 15.75 |
|                                  | 27891 *  | 3c — 14 AWG<br>3c — 10 AWG                  | Unshielded                                             | 15.75 |
|                                  | 28891 *  | 3c — 14 AWG<br>3c — 10 AWG                  | Unshielded                                             | 15.75 |
|                                  | 27892 *  | 3c — 14 AWG<br>3c — 8 AWG                   | Unshielded                                             | 15.75 |
|                                  | 28892 *  | 3c — 14 AWG<br>3c — 8 AWG                   | Unshielded                                             | 15.75 |
|                                  | 27893 *  | 3c — 14 AWG<br>3c — 6 AWG                   | Unshielded                                             | 15.75 |
|                                  | 28893 *  | 3c — 14 AWG<br>3c — 6 AWG                   | Unshielded                                             | 15.75 |
|                                  | 6054 *   | 3c — 14 AWG<br>3c — 12 AWG                  | Unshielded                                             | 15.91 |
|                                  | 6051 *   | 3c — 14 AWG<br>3c — 10 AWG                  | Unshielded                                             | 15.91 |
|                                  | 6059 *   | 3c — 14 AWG<br>3c — 8 AWG                   | Unshielded                                             | 15.91 |
|                                  | 6060 *   | 3c — 14 AWG<br>3c — 6 AWG                   | Unshielded                                             | 15.91 |
| 8                                | 9405     | 6c — 18 AWG<br>2c — 16 AWG                  | Unshielded                                             | 4.8   |
|                                  | 8448     | 6c — 22 AWG<br>2c — 18 AWG                  | Unshielded                                             | 4.8   |
|                                  | 9903•    | 3pr — 28 AWG<br>1pr — 24 AWG                | Individual Beldfoil<br>plus braid                      | 11.18 |
| 9                                | 3119A•   | 3pr — 24 AWG<br>3c — 18 AWG                 | Overall Beldfoil<br>plus braid                         | 15.25 |
| 10                               | 8787     | 4c — 24 AWG<br>4c — 24 AWG<br>2c — 22 AWG   | Red or Green Beldfoil<br>over (2) Quads,<br>Unshielded | 4.20  |
| 12                               | 7949A    | 4pr — 24 AWG▼<br>4c — 16 AWG                | Unshielded                                             | 14.8  |
|                                  | 7950A    | 4pr — 24 AWG▼<br>4c — 16 AWG                | Unshielded                                             | 14.8  |
|                                  | 7951A    | 4pr — 24 AWG▼<br>4c — 18 AWG                | Unshielded                                             | 14.8  |
|                                  | 7952A    | 4pr — 24 AWG▼<br>4c — 14 AWG                | Unshielded                                             | 14.8  |
| 23                               | 9641     | 6pr — 26 AWG<br>10c — 26 AWG<br>1c — 24 AWG | Overall foil<br>plus braid                             | 4.16  |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

• Quad

• Duofoil® shield

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## Multi-conductor and Paired Cables

Partially Shielded Cables (Combination Unshielded and Shielded Conductors)

| No. of Conductors | Part No. | Conductor/Gage Description | Shielding                              | Page  |
|-------------------|----------|----------------------------|----------------------------------------|-------|
| 25 AWG            |          |                            |                                        |       |
| 4                 | 8434     | 1pr — 25 AWG               | Beldfoil®                              | 5.46  |
|                   |          | 1pr — 25 AWG               | Unshielded plus overall foil shield    |       |
| 22 AWG            |          |                            |                                        |       |
| 3                 | 8734     | 1c — 22 AWG                | Braid                                  | 4.14  |
|                   |          | 2c — 22 AWG                | Unshielded                             |       |
|                   | 9685     | 1pr — 22 AWG               | Beldfoil                               | 5.46  |
|                   |          | 1c — 22 AWG                | Unshielded                             |       |
| 4                 | 8732     | 1pr — 22 AWG               | Braid                                  | 5.23  |
|                   |          | 1pr — 22 AWG               | Unshielded                             |       |
|                   | 8730     | 1pr — 22 AWG               | Beldfoil                               | 5.46  |
|                   |          | 1pr — 22 AWG               | Unshielded                             |       |
|                   | 8724     | 1pr — 22 AWG               | Beldfoil                               | 5.46  |
|                   |          | 1pr — 22 AWG               | Unshielded                             |       |
| 5                 | 8788     | 3c — 22 AWG                | Individual Beldfoil                    | 4.20  |
|                   |          | 2c — 22 AWG                | Unshielded                             |       |
| 12                | 9689     | 2pr — 22 AWG               | Individual Beldfoil plus overall braid | 11.21 |
|                   |          | 4pr — 22 AWG               | Unshielded                             |       |
|                   | 82689    | 2pr — 22 AWG               | Individual Beldfoil plus overall braid | 11.21 |
|                   |          | 4pr — 22 AWG               | Unshielded                             |       |
| 20 AWG            |          |                            |                                        |       |
| 3                 | 8763     | 1pr — 20 AWG               | Beldfoil                               | 5.47  |
|                   |          | 1c — 20 AWG                | Unshielded                             |       |
| 4                 | 8722     | 1pr — 20 AWG               | Beldfoil                               | 5.47  |
|                   |          | 1pr — 20 AWG               | Unshielded                             |       |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

▸ Quad

• Duofoil® shield

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INCORPORATED

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**1-800-527-0010**

## Paired Cable

| No. of Pairs              | Unshielded                                                                                                                        |                                                | Spiral Shield |      | Braid Shield   |                       | Overall Beldfoil®                                                                    |                                                                                                                                            | Overall Foil/Braid                                |                                                                 | Individual Beldfoil                      |                                                 | Individual Braid |       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|------|----------------|-----------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------|------------------------------------------|-------------------------------------------------|------------------|-------|
|                           | Part No.                                                                                                                          | Page                                           | Part No.      | Page | Part No.       | Page                  | Part No.                                                                             | Page                                                                                                                                       | Part No.                                          | Page                                                            | Part No.                                 | Page                                            | Part No.         | Page  |
| <b>25 AWG and smaller</b> |                                                                                                                                   |                                                |               |      |                |                       |                                                                                      |                                                                                                                                            |                                                   |                                                                 |                                          |                                                 |                  |       |
| 1                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 9271<br>9180                                                                         | 15.15<br>6.84<br>12.28<br>12.56                                                                                                            | —                                                 | —                                                               | —                                        | —                                               | —                | —     |
| 2                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8132FO                                                                               | 5.14                                                                                                                                       | 9804<br>8132                                      | 5.26<br>5.27                                                    | 1215A <sup>■</sup><br>7891A <sup>■</sup> | 11.21<br>12.29                                  | —                | —     |
| 3                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8133FO                                                                               | 5.14                                                                                                                                       | 9805<br>8133<br>1538A                             | 5.26<br>5.27<br>11.22                                           | —                                        | —                                               | —                | —     |
| 4                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8134FO                                                                               | 5.14                                                                                                                                       | 9806<br>8134                                      | 5.26<br>5.27                                                    | 7890A <sup>■</sup>                       | 12.29                                           | —                | —     |
| 5                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8135FO                                                                               | 5.14                                                                                                                                       | 9807<br>8135                                      | 5.26<br>5.27                                                    | —                                        | —                                               | —                | —     |
| 7                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | 9808                                              | 5.26                                                            | —                                        | —                                               | —                | —     |
| 8                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8138FO                                                                               | 5.14                                                                                                                                       | 8138                                              | 5.27                                                            | 7880A <sup>■</sup>                       | 12.29                                           | —                | —     |
| 9                         | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | 9809                                              | 5.26                                                            | —                                        | —                                               | —                | —     |
| 12                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | 9812                                              | 5.26                                                            | 7892A <sup>■</sup>                       | 12.29                                           | —                | —     |
| 12-1/2                    | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8142FO                                                                               | 5.14                                                                                                                                       | 8142                                              | 12.55<br>5.27                                                   | —                                        | —                                               | —                | —     |
| 13                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | 9813                                              | 5.26                                                            | —                                        | —                                               | —                | —     |
| 16                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | —                                                 | —                                                               | 7893A <sup>■</sup>                       | 12.29                                           | —                | —     |
| 18                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8148FO                                                                               | 5.14                                                                                                                                       | 8148                                              | 5.27                                                            | —                                        | —                                               | —                | —     |
| 19                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | 9819                                              | 5.26                                                            | —                                        | —                                               | —                | —     |
| 25                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | 8155FO                                                                               | 5.14                                                                                                                                       | 9825<br>8155<br>1401A                             | 5.26<br>5.27<br>11.23                                           | —                                        | —                                               | —                | —     |
| 31                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | 9814                                              | 5.26                                                            | —                                        | —                                               | —                | —     |
| 34                        | —                                                                                                                                 | —                                              | —             | —    | —              | —                     | —                                                                                    | —                                                                                                                                          | 1403A                                             | 11.23                                                           | —                                        | —                                               | —                | —     |
| <b>24 AWG</b>             |                                                                                                                                   |                                                |               |      |                |                       |                                                                                      |                                                                                                                                            |                                                   |                                                                 |                                          |                                                 |                  |       |
| 1                         | —                                                                                                                                 | —                                              | —             | —    | 1901A<br>1800F | 12.6<br>12.10<br>12.5 | 9501<br>82641<br>88641<br>1508A<br>1883A<br>8641<br>88641<br>82641<br>1800B<br>1801B | 5.11<br>12.10<br>5.13<br>5.16<br>5.49<br>12.10<br>5.13<br>5.16<br>5.49<br>12.10<br>5.13<br>5.49<br>12.10<br>5.13<br>5.49<br>12.10<br>12.28 | 9841<br>82841<br>89841<br>7200A<br>7205A<br>7206A | 5.28<br>5.28<br>5.52<br>5.28<br>5.52<br>15.38<br>15.38<br>15.38 | —                                        | —                                               | —                | —     |
| 2                         | 9562 <sup>▼</sup><br>1588A <sup>▼</sup><br>1588R <sup>▼</sup><br>1590A <sup>▼</sup><br>1227A1 <sup>*</sup><br>1243A2 <sup>▼</sup> | 5.4<br>11.9<br>11.9<br>11.10<br>11.13<br>11.13 | —             | —    | —              | —                     | 9502<br>82502<br>1419A<br>88102                                                      | 5.11<br>5.13<br>5.49<br>5.15<br>5.50                                                                                                       | 9842<br>82842<br>8332<br>9829<br>8102             | 5.28<br>5.28<br>5.52<br>5.29<br>5.30<br>5.31                    | 9729<br>89729                            | 5.35<br>12.30<br>15.27<br>12.31<br>5.36<br>5.53 | 1902A            | 12.21 |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◻ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Paired Cable

| No. of Pairs              | Unshielded                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                               | Spiral Shield |      | Braid Shield |      | Overall Beldfoil®                                                                                                    |                                                                                                                   | Overall Foil/Braid                                       |                                                         | Individual Beldfoil                                  |                                                                           | Individual Braid |       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|--------------|------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------|------------------|-------|
|                           | Part No.                                                                                                                                                                                                                                                         | Page                                                                                                                                                                                                                          | Part No.      | Page | Part No.     | Page | Part No.                                                                                                             | Page                                                                                                              | Part No.                                                 | Page                                                    | Part No.                                             | Page                                                                      | Part No.         | Page  |
| <b>24 AWG (continued)</b> |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                               |               |      |              |      |                                                                                                                      |                                                                                                                   |                                                          |                                                         |                                                      |                                                                           |                  |       |
| <b>2</b><br>(cont'd)      |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                               |               |      |              |      |                                                                                                                      |                                                                                                                   | 7201A                                                    | 15.38                                                   | 82729                                                | 12.31<br>5.36<br>5.53                                                     |                  |       |
|                           |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                               |               |      |              |      |                                                                                                                      |                                                                                                                   |                                                          |                                                         | 1802B<br>8162■<br>1509C■                             | 12.28<br>5.44<br>12.20                                                    |                  |       |
| <b>3</b>                  | —                                                                                                                                                                                                                                                                | —                                                                                                                                                                                                                             | —             | —    | —            | —    | 9503<br>82503<br>89503<br>9680<br>1420A<br>88103                                                                     | 5.11<br>5.13<br>5.49<br>5.13<br>5.49<br>5.15<br>5.15<br>5.50                                                      | 9843<br>8333<br>9830<br>8103<br>1534A▼<br>3120A<br>7202A | 5.28<br>5.29<br>5.30<br>5.31<br>11.22<br>15.25<br>15.38 | 9730<br>89730<br>8163■<br>9990                       | 12.30<br>5.35<br>12.31<br>5.36<br>5.53<br>5.44<br>5.37                    | —                | —     |
| <b>4</b>                  | 1875GA<br>1875GB<br>1700A▼<br>1700R▼<br>1701A▼<br>1701LC▼<br>1752A<br>1500A▼<br>1500R▼<br>1501A▼<br>1583A▼<br>1583R▼<br>1583B▼<br>1594A▼<br>1585A▼<br>1585B▼<br>1585LC▼<br>1592A<br>1229A1▼<br>1245A2▼<br>11700A<br>121700A*<br>7923A<br>7924A<br>7928A<br>7918A | 11.4<br>11.4<br>11.6<br>11.6<br>14.10<br>11.6<br>11.7<br>11.8<br>11.8<br>11.8<br>11.9<br>14.11<br>11.9<br>11.9<br>11.10<br>14.11<br>11.10<br>11.10<br>11.11<br>11.13<br>11.13<br>15.7<br>15.7<br>15.6<br>15.7<br>15.8<br>15.8 | —             | —    | —            | —    | 9504<br>82504<br>89504<br>9681<br>1421A<br>88104<br>1533R▼<br>1533P▼<br>1624R▼<br>1624P▼<br>1633A▼<br>7929A<br>7919A | 5.11<br>5.13<br>5.49<br>5.13<br>5.15<br>5.15<br>5.50<br>11.14<br>11.14<br>11.15<br>11.15<br>11.16<br>15.6<br>15.8 | 9844<br>8334<br>9831<br>8104<br>7203A<br>7921A           | 5.28<br>5.29<br>5.30<br>5.31<br>15.38<br>15.6           | 9728<br>89728<br>8164■<br>1408R■<br>1510C■<br>1803F■ | 12.30<br>5.35<br>12.31<br>5.36<br>5.53<br>5.44<br>12.19<br>12.20<br>12.29 | 1904A            | 12.21 |
| <b>5</b>                  | —                                                                                                                                                                                                                                                                | —                                                                                                                                                                                                                             | —             | —    | —            | —    | 9505<br>82505<br>89505<br>1422A<br>88105                                                                             | 5.11<br>5.13<br>5.49<br>5.13<br>5.49<br>5.15<br>5.50                                                              | 8335<br>9832<br>8105                                     | 5.29<br>5.30<br>5.31                                    | 8165■<br>89705                                       | 5.44<br>12.31<br>5.53                                                     | —                | —     |
| <b>6</b>                  | 9566▼                                                                                                                                                                                                                                                            | 5.4                                                                                                                                                                                                                           | —             | —    | —            | —    | 9506<br>82506<br>9682<br>1423A<br>88106                                                                              | 5.12<br>5.13<br>5.15<br>5.15<br>5.50                                                                              | 8336<br>9839<br>8106                                     | 5.29<br>5.30<br>5.31                                    | 9731<br>89731<br>9991<br>8166■<br>1409R■<br>1511C■   | 12.30<br>5.35<br>12.31<br>5.36<br>5.53<br>5.37<br>5.44<br>12.19<br>12.20  | 1906A            | 12.23 |
| <b>7</b>                  | —                                                                                                                                                                                                                                                                | —                                                                                                                                                                                                                             | —             | —    | —            | —    | 9507                                                                                                                 | 5.12                                                                                                              | 8337<br>9833<br>8107                                     | 5.29<br>5.30<br>5.31                                    | 8167■<br>89757                                       | 5.44<br>12.31<br>5.53                                                     | —                | —     |
| <b>7-1/2</b>              | —                                                                                                                                                                                                                                                                | —                                                                                                                                                                                                                             | —             | —    | —            | —    | 88107                                                                                                                | 5.50                                                                                                              | —                                                        | —                                                       | —                                                    | —                                                                         | —                | —     |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

♦ Quad



## Paired Cable

| No. of Pairs              | Unshielded                           |                                | Spiral Shield |      | Braid Shield |      | Overall Beldfoil®                  |                                      | Overall Foil/Braid   |                       | Individual Beldfoil                                         |                                                                   | Individual Braid |       |
|---------------------------|--------------------------------------|--------------------------------|---------------|------|--------------|------|------------------------------------|--------------------------------------|----------------------|-----------------------|-------------------------------------------------------------|-------------------------------------------------------------------|------------------|-------|
|                           | Part No.                             | Page                           | Part No.      | Page | Part No.     | Page | Part No.                           | Page                                 | Part No.             | Page                  | Part No.                                                    | Page                                                              | Part No.         | Page  |
| <b>24 AWG (continued)</b> |                                      |                                |               |      |              |      |                                    |                                      |                      |                       |                                                             |                                                                   |                  |       |
| 8                         | 1702A♦<br>1703A♦                     | 11.6<br>11.6                   | —             | —    | —            | —    | 9508<br>1668A▼                     | 5.12<br>11.16                        | 8108                 | 5.31                  | 8168■<br>1410R■<br>1512C■<br>1805F■                         | 5.45<br>12.19<br>12.20<br>12.29                                   | 1908A            | 12.23 |
| 9                         | —                                    | —                              | —             | —    | —            | —    | 9509<br>82509<br><br>9683<br>88109 | 5.12<br>5.13<br>5.49<br>5.15<br>5.50 | 9834                 | 5.30                  | 9732<br><br>89732<br><br>9992                               | 12.30<br>5.35<br>12.31<br>5.36<br>5.53<br>5.37                    | —                | —     |
| 10                        | 9570▼                                | 5.4                            | —             | —    | —            | —    | 9510                               | 5.12                                 | 8340<br>9835<br>8110 | 5.29<br>5.30<br>5.31  | 8170■                                                       | 5.45                                                              | —                | —     |
| 11                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 9733                                                        | 12.30<br>5.35                                                     | —                | —     |
| 12                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | 9836                 | 5.30                  | 9734<br><br>9993<br>89734<br><br>1411R■<br>1513C■<br>1806F■ | 12.30<br>5.35<br>5.37<br>12.31<br>5.53<br>12.19<br>12.20<br>12.29 | 1912A            | 12.23 |
| 12-1/2                    | —                                    | —                              | —             | —    | —            | —    | 9684<br>1424A<br>82512<br>88112    | 5.15<br>5.15<br>5.49<br>5.50         | 8342<br>8112         | 5.29<br>12.51<br>5.31 | —                                                           | —                                                                 | —                | —     |
| 15                        | —                                    | —                              | —             | —    | —            | —    | 9515<br>1425A                      | 5.12<br>5.15                         | 8345<br>8115         | 5.29<br>5.31          | 9735<br><br>8175■                                           | 12.30<br>5.35<br>5.45                                             | —                | —     |
| 16                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 1412R■<br>1514C■<br>1850F■                                  | 12.19<br>12.20<br>12.29                                           | 1916A            | 12.23 |
| 17                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 9736                                                        | 12.30<br>5.35                                                     | —                | —     |
| 18                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | 8348<br>9837<br>8118 | 5.29<br>5.30<br>5.31  | 8178■<br>89758                                              | 5.45<br>12.31<br>5.53                                             | —                | —     |
| 18-1/2                    | —                                    | —                              | —             | —    | —            | —    | 88118                              | 5.50                                 | —                    | —                     | —                                                           | —                                                                 | —                | —     |
| 19                        | —                                    | —                              | —             | —    | —            | —    | 9519                               | 5.12                                 | —                    | —                     | 9737                                                        | 12.30<br>5.35                                                     | —                | —     |
| 20                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 1413R■<br>1515C■                                            | 12.19<br>12.20                                                    | —                | —     |
| 24                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 1414R■<br>1516C■<br>1852F■                                  | 12.19<br>12.20<br>12.29                                           | 1924A            | 12.23 |
| 25                        | 9585▼<br>1864A▼<br>1871A▼<br>1232A1▼ | 5.4<br>11.12<br>11.12<br>11.13 | —             | —    | —            | —    | 9525<br>88125                      | 5.12<br>5.50                         | 8355<br>9838<br>8125 | 5.29<br>5.30<br>5.31  | 9995<br>8185■                                               | 5.37<br>5.45                                                      | —                | —     |
| 26                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 1415R■<br>1517C■                                            | 12.19<br>12.20                                                    | —                | —     |
| 27                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 9738                                                        | 12.30<br>5.35                                                     | —                | —     |
| 32                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 1416R■<br>1518C■<br>1854F■                                  | 12.19<br>12.20<br>12.29                                           | 1932A            | 12.23 |
| 50                        | —                                    | —                              | —             | —    | —            | —    | 9550                               | 5.12                                 | —                    | —                     | —                                                           | —                                                                 | —                | —     |
| 52                        | —                                    | —                              | —             | —    | —            | —    | —                                  | —                                    | —                    | —                     | 1519C■                                                      | 12.20                                                             | —                | —     |

\*Armored

†Triad

▼ Solid conductors

♦ Siamese version

◻ Quad

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## Paired Cable

| No. of Pairs | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |       | Overall Foil/Braid |       | Individual Beldfoil |      | Individual Braid |      |       |       |         |  |  |  |  |  |
|--------------|------------|-------|---------------|------|--------------|------|-------------------|-------|--------------------|-------|---------------------|------|------------------|------|-------|-------|---------|--|--|--|--|--|
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| 23 AWG       |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
| 4            | 7851A▼     | 11.3  | —             | —    | —            | —    | —                 | —     | —                  | —     | —                   | —    | —                | —    |       |       |         |  |  |  |  |  |
|              | 7852A▼     | 11.3  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              | 1872A▼     | 11.4  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              | 1874A▼     | 11.4  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              | 7881A▼     | 11.5  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 14.9  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              | 7882A▼     | 11.5  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 14.9  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              | 7883A▼     | 11.5  |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
| 11872A       | 15.9       |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
| 121872A      | 15.9       |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
| 22 AWG       |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
| 1            | 8740▼      | 5.4   | 8737          | 5.24 | 8437▼        | 5.23 | 8450▼             | 12.11 | 3079A              | 15.19 | —                   | —    | —                | —    |       |       |         |  |  |  |  |  |
|              | 88442      | 4.4   |               |      |              |      | 9414              | 5.18  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 4.23  |               |      |              |      | 9462              | 5.18  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 5.6   |               |      |              |      | 8761              | 12.12 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 5.48  |               |      |              |      |                   | 5.18  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              | 82442      | 4.4   |               |      |              |      | 9461              | 12.12 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 4.23  |               |      |              |      |                   | 5.18  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 5.6   |               |      |              |      | 8451              | 12.11 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            | 5.48  |               |      |              |      |                   | 5.19  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              | 9407       | 15.41 |               |      |              |      | 9451              | 12.11 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.19  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 1266A             | 12.11 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.19  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 1503A             | 12.11 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.19  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 88761             | 12.12 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.20  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.51  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 87761             | 12.12 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.20  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.51  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 82761             | 12.12 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.20  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 5.51  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 9182●             | 15.15 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 6.84  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 89182●            | 15.15 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 6.84  |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 3077F             | 15.19 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 3078F             | 15.19 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
|              |            |       |               |      |              |      | 9322              | 15.41 |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |
| 1-1/2        | —          | —     | —             | —    | —            | —    | —                 | —     | 3106A              | 15.26 | —                   | —    | —                | —    |       |       |         |  |  |  |  |  |
| 2            | 8741▼      | 5.4   | —             | —    | —            | —    | 9302▼             | 5.17  | 8302               | 5.32  | 9406                | 5.38 | —                | —    |       |       |         |  |  |  |  |  |
|              | 9744       | 5.5   |               |      |              |      | 9184▼             | 5.17  | 9855▼              | 5.33  |                     |      |                  |      | 8723  | 12.13 |         |  |  |  |  |  |
|              | 88741      | 5.6   |               |      |              |      | 3000A             | 15.41 | 1268A▼             | 5.33  |                     |      |                  |      |       | 14.18 |         |  |  |  |  |  |
|              |            | 5.48  |               |      |              |      | 9512              | 15.41 | 89855▼             | 5.33  |                     |      |                  |      |       | 15.27 |         |  |  |  |  |  |
|              | 82741      | 5.6   |               |      |              |      |                   |       |                    | 5.33  |                     |      |                  |      |       | 5.38  |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       | 1269A▼             | 5.33  |                     |      |                  |      | 82723 | 12.13 |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       | 9696▼              | 5.33  |                     |      |                  |      |       |       | 5.38    |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       | 89696▼             | 5.33  |                     |      |                  |      |       |       | 5.54    |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    | 5.52  |                     |      |                  |      |       | 88723 | 12.13   |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       | 3107A              | 15.26 |                     |      |                  |      |       |       | 15.27   |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 5.38    |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 5.54    |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      | 87723 | 12.13 |         |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 5.38    |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 5.54    |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 5.46    |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 8728■   |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 9688■▼  |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 82688■▼ |  |  |  |  |  |
|              |            |       |               |      |              |      |                   |       |                    |       |                     |      |                  |      |       |       | 1634A■▼ |  |  |  |  |  |
|              |            |       |               |      |              |      |                   | 3087A |                    |       |                     |      |                  |      |       |       |         |  |  |  |  |  |

## Paired Cable

| No. of Pairs              | Unshielded                      |                                          | Spiral Shield |      | Braid Shield |      | Overall Beldfoil®      |                        | Overall Foil/Braid |               | Individual Beldfoil                                                 |                                                                                                                                             | Individual Braid |      |
|---------------------------|---------------------------------|------------------------------------------|---------------|------|--------------|------|------------------------|------------------------|--------------------|---------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|
|                           | Part No.                        | Page                                     | Part No.      | Page | Part No.     | Page | Part No.               | Page                   | Part No.           | Page          | Part No.                                                            | Page                                                                                                                                        | Part No.         | Page |
| <b>22 AWG (continued)</b> |                                 |                                          |               |      |              |      |                        |                        |                    |               |                                                                     |                                                                                                                                             |                  |      |
| <b>2</b><br>(cont'd)      |                                 |                                          |               |      |              |      |                        |                        |                    |               | 9451D♦<br>1504A♦                                                    | 12.14<br>12.14                                                                                                                              |                  |      |
|                           |                                 |                                          |               |      |              |      |                        |                        |                    |               | 9328<br>3001A■<br>1814R■                                            | 15.42<br>15.42<br>12.22                                                                                                                     |                  |      |
| <b>3</b>                  | 8742▼<br>9745<br>82742          | 5.4<br>5.5<br>5.6<br>5.48                | —             | —    | —            | —    | 9513                   | 15.41                  | 8303<br>3108A      | 5.32<br>15.26 | 8767▼<br>8777                                                       | 5.37<br>12.24<br>15.27<br>5.40<br>12.25<br>5.41<br>5.54<br>12.25<br>5.41<br>5.54<br>12.25<br>5.41<br>5.54<br>12.25<br>5.41<br>5.54<br>12.25 | —                | —    |
| <b>4</b>                  | 8757▼<br>9746<br>88757<br>82757 | 5.4<br>5.5<br>5.6<br>5.48<br>5.6<br>5.48 | —             | —    | —            | —    | 9305▼<br>3004A<br>9514 | 5.17<br>15.41<br>15.41 | 8304<br>3109A      | 5.32<br>15.26 | 9330<br>3005A■<br>1815R■<br>1217B                                   | 15.42<br>15.42<br>12.22<br>12.23                                                                                                            | —                | —    |
| <b>5</b>                  | —                               | —                                        | —             | —    | —            | —    | —                      | —                      | 8305               | 5.32          | —                                                                   | —                                                                                                                                           | —                | —    |
| <b>6</b>                  | 8743▼<br>8747<br>82743          | 5.4<br>5.5<br>5.6<br>5.48                | —             | —    | —            | —    | 9306▼<br>9516          | 5.17<br>15.41          | 8306               | 5.32          | 8768▼<br>8778<br>82778<br>88778<br>87778<br>9331<br>1816R■<br>1218B | 5.37<br>12.24<br>5.40<br>12.25<br>5.41<br>5.54<br>12.25<br>5.41<br>5.54<br>12.25<br>15.42<br>12.22<br>12.23                                 | —                | —    |
| <b>7</b>                  | —                               | —                                        | —             | —    | —            | —    | —                      | —                      | 8307               | 5.32          | —                                                                   | —                                                                                                                                           | —                | —    |
| <b>8</b>                  | 9160▼                           | 5.4                                      | —             | —    | —            | —    | 3006A                  | 15.41                  | 8308               | 5.32          | 3007A■<br>1817R■                                                    | 15.42<br>12.22                                                                                                                              | —                | —    |
| <b>9</b>                  | 8744▼<br>8748                   | 5.4<br>5.5                               | —             | —    | —            | —    | 9309▼<br>9520          | 5.17<br>15.41          | —                  | —             | 8764▼<br>8774<br>9332<br>1219B                                      | 5.37<br>12.24<br>5.40<br>15.42<br>12.23                                                                                                     | —                | —    |
| <b>10</b>                 | —                               | —                                        | —             | —    | —            | —    | —                      | —                      | 8310               | 5.32          | —                                                                   | —                                                                                                                                           | —                | —    |
| <b>11</b>                 | —                               | —                                        | —             | —    | —            | —    | 9521                   | 15.41                  | —                  | —             | 8765▼<br>8775<br>9333                                               | 5.37<br>12.24<br>5.40<br>15.42                                                                                                              | —                | —    |
| <b>12</b>                 | 9747                            | 5.5                                      | —             | —    | —            | —    | 3008A                  | 15.41                  | —                  | —             | 9768<br>3009A■<br>1818R■<br>1220B                                   | 12.24<br>5.40<br>15.42<br>12.22<br>12.23                                                                                                    | —                | —    |
| <b>12-1/2</b>             | —                               | —                                        | —             | —    | —            | —    | —                      | —                      | 8312               | 5.32          | —                                                                   | —                                                                                                                                           | —                | —    |

\*Armored

†Triad

▼ Solid conductors

♦ Siamese version

■ Quad

• Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Paired Cable

| No. of Pairs              | Unshielded   |                | Spiral Shield |       | Braid Shield |      | Overall Beldfoil®                                                                                    |                                                                                                                 | Overall Foil/Braid                                       |                                                   | Individual Beldfoil                                      |                                                   | Individual Braid |      |
|---------------------------|--------------|----------------|---------------|-------|--------------|------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|------------------|------|
|                           | Part No.     | Page           | Part No.      | Page  | Part No.     | Page | Part No.                                                                                             | Page                                                                                                            | Part No.                                                 | Page                                              | Part No.                                                 | Page                                              | Part No.         | Page |
| <b>22 AWG</b> (continued) |              |                |               |       |              |      |                                                                                                      |                                                                                                                 |                                                          |                                                   |                                                          |                                                   |                  |      |
| 15                        | 8749         | 5.5            | —             | —     | —            | —    | 9315▼<br>9524                                                                                        | 5.17<br>15.41                                                                                                   | 8315                                                     | 5.32                                              | 8766▼<br>8776                                            | 5.37<br>12.24<br>5.40                             | —                | —    |
| 16                        | —            | —              | —             | —     | —            | —    | 3010A                                                                                                | 15.41                                                                                                           | —                                                        | —                                                 | 3011A■<br>1819R■<br>1222B                                | 15.42<br>12.22<br>12.23                           | —                | —    |
| 17                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 9769                                                     | 12.24<br>5.40                                     | —                | —    |
| 18                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | 8318                                                     | 5.32                                              | —                                                        | —                                                 | —                | —    |
| 19                        | 9748         | 5.5            | —             | —     | —            | —    | 9319▼<br>9526                                                                                        | 5.17<br>15.41                                                                                                   | —                                                        | —                                                 | 8769<br>9335                                             | 12.24<br>5.40<br>15.42                            | —                | —    |
| 20                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 1820R■<br>1225B                                          | 12.22<br>12.23                                    | —                | —    |
| 24                        | —            | —              | —             | —     | —            | —    | 3012A                                                                                                | 15.41                                                                                                           | —                                                        | —                                                 | 3013A■<br>1821R■<br>1427B                                | 15.42<br>12.22<br>12.23                           | —                | —    |
| 25                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | 8325                                                     | 5.32                                              | —                                                        | —                                                 | —                | —    |
| 26                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 1822R■                                                   | 12.22                                             | —                | —    |
| 27                        | 8750         | 5.5            | —             | —     | —            | —    | 9327▼<br>9527                                                                                        | 5.17<br>15.41                                                                                                   | —                                                        | —                                                 | 8773                                                     | 12.24<br>5.40                                     | —                | —    |
| 28                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 1221B                                                    | 12.23                                             | —                | —    |
| 32                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 1823R■<br>1226B                                          | 12.22<br>12.23                                    | —                | —    |
| 37                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 9767                                                     | 12.24<br>5.40                                     | —                | —    |
| 38                        | —            | —              | —             | —     | —            | —    | 8752▼                                                                                                | 5.18                                                                                                            | —                                                        | —                                                 | —                                                        | —                                                 | —                | —    |
| 50                        | —            | —              | —             | —     | —            | —    | 3014A                                                                                                | 15.41                                                                                                           | —                                                        | —                                                 | 3015A■                                                   | 15.42                                             | —                | —    |
| 51                        | —            | —              | —             | —     | —            | —    | 8751▼<br>9551                                                                                        | 5.17<br>15.41                                                                                                   | —                                                        | —                                                 | 9337                                                     | 15.42                                             | —                | —    |
| 52                        | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 1428B                                                    | 12.23                                             | —                | —    |
| <b>20 AWG</b>             |              |                |               |       |              |      |                                                                                                      |                                                                                                                 |                                                          |                                                   |                                                          |                                                   |                  |      |
| 1                         | 8205<br>9408 | 12.36<br>15.43 | 8759          | 12.14 | —            | —    | 8762<br>9464<br>9154<br>9320<br>1033A<br>3111A<br>3112A<br>3113A<br>83955<br>83950<br>83952<br>83954 | 12.14<br>5.20<br>12.14<br>5.20<br>15.43<br>15.43<br>15.53<br>15.53<br>15.53<br>15.54<br>15.54<br>15.54<br>15.54 | 9463<br>9463DB<br>89463<br>129463*<br>139463*<br>189463* | 15.13<br>6.83<br>15.13<br>15.14<br>15.14<br>15.14 | 22671■<br>23543*■<br>26530*■                             | 15.76<br>15.78<br>15.78                           | —                | —    |
| 2                         | —            | —              | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 9402<br>1075A■<br>3115A■<br>22638■<br>23534*■<br>26531*■ | 5.41<br>15.43<br>15.53<br>15.76<br>15.78<br>15.78 | —                | —    |
| 3                         | 9750         | 5.7            | —             | —     | —            | —    | —                                                                                                    | —                                                                                                               | —                                                        | —                                                 | 9883<br>9873                                             | 5.41<br>5.42                                      | —                | —    |
| 4                         | —            | —              | —             | —     | —            | —    | 85164<br>1056A<br>1102A                                                                              | 5.11<br>15.43<br>15.53                                                                                          | —                                                        | —                                                 | 8725<br>9901●■<br>89901●■<br>1076A■<br>1112A■            | 5.47<br>11.18<br>11.18<br>15.43<br>15.53          | —                | —    |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

♦ Quad



## Paired Cable

| No. of Pairs              | Unshielded                              |                                                                  | Spiral Shield |               | Braid Shield |      | Overall Beldfoil®                |                                                                                  | Overall Foil/Braid |                | Individual Beldfoil                                                                                                                                                           |                                                                     | Individual Braid |      |
|---------------------------|-----------------------------------------|------------------------------------------------------------------|---------------|---------------|--------------|------|----------------------------------|----------------------------------------------------------------------------------|--------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|------|
|                           | Part No.                                | Page                                                             | Part No.      | Page          | Part No.     | Page | Part No.                         | Page                                                                             | Part No.           | Page           | Part No.                                                                                                                                                                      | Page                                                                | Part No.         | Page |
| <b>20 AWG (continued)</b> |                                         |                                                                  |               |               |              |      |                                  |                                                                                  |                    |                |                                                                                                                                                                               |                                                                     |                  |      |
| <b>4</b><br>(cont'd)      |                                         |                                                                  |               |               |              |      |                                  |                                                                                  |                    |                | 1006A <sup>■</sup><br>1012A <sup>■</sup><br>22639 <sup>■</sup><br>23514 <sup>*■</sup><br>26532 <sup>*■</sup>                                                                  | 15.53<br>15.53<br>15.76<br>15.78<br>15.78                           |                  |      |
| <b>5</b>                  | —                                       | —                                                                | —             | —             | —            | —    | —                                | —                                                                                | —                  | —              | 9902 <sup>*■</sup>                                                                                                                                                            | 11.18                                                               | —                | —    |
| <b>6</b>                  | 9751                                    | 5.7                                                              | —             | —             | —            | —    | —                                | —                                                                                | —                  | —              | 9886 <sup>■</sup><br>9874 <sup>■</sup><br>22640 <sup>■</sup><br>23513 <sup>*■</sup><br>26533 <sup>*■</sup>                                                                    | 5.41<br>5.42<br>15.76<br>15.78<br>15.78                             | —                | —    |
| <b>8</b>                  | —                                       | —                                                                | —             | —             | —            | —    | 85168<br>1057A<br>1001A<br>1103A | 5.11<br>15.43<br>15.53<br>15.53                                                  | —                  | —              | 1077A <sup>■</sup><br>1007A <sup>■</sup><br>1013A <sup>■</sup><br>22641 <sup>■</sup><br>23503 <sup>*■</sup><br>26534 <sup>*■</sup>                                            | 15.43<br>15.53<br>15.53<br>15.76<br>15.78<br>15.78                  | —                | —    |
| <b>9</b>                  | 9752                                    | 5.7                                                              | —             | —             | —            | —    | —                                | —                                                                                | —                  | —              | 9875 <sup>■</sup>                                                                                                                                                             | 5.42                                                                | —                | —    |
| <b>11</b>                 | —                                       | —                                                                | —             | —             | —            | —    | —                                | —                                                                                | —                  | —              | 9876 <sup>■</sup>                                                                                                                                                             | 5.42                                                                | —                | —    |
| <b>12</b>                 | —                                       | —                                                                | —             | —             | —            | —    | 1058A<br>1002A                   | 15.43<br>15.43                                                                   | —                  | —              | 9877 <sup>■</sup><br>1078A <sup>■</sup><br>1008A <sup>■</sup><br>1014A <sup>■</sup><br>1025A <sup>■</sup><br>22676 <sup>■</sup><br>23521 <sup>*■</sup><br>26535 <sup>*■</sup> | 5.42<br>15.43<br>15.53<br>15.53<br>15.53<br>15.76<br>15.78<br>15.78 | —                | —    |
| <b>15</b>                 | 9755                                    | 5.7                                                              | —             | —             | —            | —    | —                                | —                                                                                | —                  | —              | 9879 <sup>■</sup>                                                                                                                                                             | 5.42                                                                | —                | —    |
| <b>16</b>                 | —                                       | —                                                                | —             | —             | —            | —    | 1059A                            | 15.43                                                                            | —                  | —              | 1079A <sup>■</sup><br>1009A <sup>■</sup><br>1015A <sup>■</sup><br>22643 <sup>■</sup><br>23532 <sup>*■</sup><br>26536 <sup>*■</sup>                                            | 15.43<br>15.53<br>15.53<br>15.76<br>15.78<br>15.78                  | —                | —    |
| <b>20</b>                 | —                                       | —                                                                | —             | —             | —            | —    | —                                | —                                                                                | —                  | —              | 1091A <sup>■</sup>                                                                                                                                                            | 15.43                                                               | —                | —    |
| <b>24</b>                 | —                                       | —                                                                | —             | —             | —            | —    | 1060A                            | 15.43                                                                            | —                  | —              | 1080A <sup>■</sup><br>1016A <sup>■</sup><br>22647 <sup>■</sup><br>23506 <sup>*■</sup><br>26537 <sup>*■</sup>                                                                  | 15.43<br>15.53<br>15.76<br>15.78<br>15.78                           | —                | —    |
| <b>36</b>                 | —                                       | —                                                                | —             | —             | —            | —    | 1061A                            | 15.43                                                                            | —                  | —              | 1081A <sup>■</sup><br>1017A <sup>■</sup><br>22670 <sup>■</sup><br>23544 <sup>*■</sup><br>26538 <sup>*■</sup>                                                                  | 15.43<br>15.53<br>15.76<br>15.78<br>15.78                           | —                | —    |
| <b>50</b>                 | —                                       | —                                                                | —             | —             | —            | —    | 1062A                            | 15.43                                                                            | —                  | —              | 1082A <sup>■</sup><br>23575 <sup>*■</sup><br>26546 <sup>*■</sup>                                                                                                              | 15.43<br>15.78<br>15.78                                             | —                | —    |
| <b>19 AWG</b>             |                                         |                                                                  |               |               |              |      |                                  |                                                                                  |                    |                |                                                                                                                                                                               |                                                                     |                  |      |
| <b>1</b>                  | 8486                                    | 5.7                                                              | —             | —             | —            | —    | —                                | —                                                                                | —                  | —              | —                                                                                                                                                                             | —                                                                   | —                | —    |
| <b>18 AWG</b>             |                                         |                                                                  |               |               |              |      |                                  |                                                                                  |                    |                |                                                                                                                                                                               |                                                                     |                  |      |
| <b>1</b>                  | 8461<br>9740<br>89740<br>87740<br>82740 | 12.36<br>5.7<br>5.8<br>5.9<br>5.48<br>5.9<br>5.48<br>5.9<br>5.48 | 8790          | 12.15<br>5.24 | 8208         | 5.23 | 8760<br>9460<br>88760<br>87760   | 12.15<br>5.21<br>12.15<br>5.21<br>12.15<br>5.21<br>5.51<br>12.15<br>5.21<br>5.51 | 3073F<br>3074F     | 15.16<br>15.16 | 22645 <sup>■</sup><br>23533 <sup>*■</sup><br>26514 <sup>*■</sup><br>22417 <sup>■</sup><br>24511 <sup>*■</sup><br>25506 <sup>*■</sup>                                          | 15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81                  | —                | —    |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◻ Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Paired Cable

| No. of Pairs              | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |       | Overall Foil/Braid |      | Individual Beldfoil |       | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|------|-------------------|-------|--------------------|------|---------------------|-------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page  | Part No.           | Page | Part No.            | Page  | Part No.         | Page |
| <b>18 AWG (continued)</b> |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| <b>1</b><br>(cont'd)      | 9409       | 15.45 |               |      |              |      | 82760             | 12.15 |                    |      |                     |       |                  |      |
|                           | 9486       | 15.56 |               |      |              |      |                   | 5.21  |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   | 5.51  |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      | 3076F             | 15.19 |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      | 9318              | 15.45 |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      | 1032A             | 15.46 |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      | 9341              | 15.56 |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      | 1120A             | 15.56 |                    |      |                     |       |                  |      |
| <b>2</b>                  | 9156       | 5.8   | —             | —    | —            | —    | 9552              | 15.45 | —                  | —    | 9368                | 15.45 | —                | —    |
|                           |            |       |               |      |              |      | 3025A             | 15.46 |                    |      | 1474A <sup>■</sup>  | 15.46 |                  |      |
|                           |            |       |               |      |              |      | 1063A             | 15.56 |                    |      | 1048A <sup>■</sup>  | 15.56 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22633 <sup>■</sup>  | 15.76 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 23511 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 26515 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22405 <sup>■</sup>  | 15.80 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 24512 <sup>*■</sup> | 15.81 |                  |      |
| <b>3</b>                  | 8690       | 5.8   | —             | —    | —            | —    | 9553              | 15.45 | —                  | —    | 9773                | 5.42  | —                | —    |
|                           |            |       |               |      |              |      | 1529A             | 15.46 |                    |      | 9369                | 15.45 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| <b>4</b>                  | 9157       | 5.8   | —             | —    | —            | —    | 9554              | 15.45 | —                  | —    | 3029A               | 15.45 | —                | —    |
|                           |            |       |               |      |              |      | 1466A             | 15.46 |                    |      | 9388                | 15.45 |                  |      |
|                           |            |       |               |      |              |      | 1064A             | 15.56 |                    |      | 1475A <sup>■</sup>  | 15.46 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 1049A <sup>■</sup>  | 15.56 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22648 <sup>■</sup>  | 15.76 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 23530 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 26516 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22404 <sup>■</sup>  | 15.80 |                  |      |
| <b>5</b>                  | 9159       | 5.8   | —             | —    | —            | —    |                   |       | —                  | —    | 24513 <sup>*■</sup> | 15.81 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 25503 <sup>*■</sup> | 15.81 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| <b>6</b>                  | 8691       | 5.8   | —             | —    | —            | —    | 9556              | 15.45 | —                  | —    | 9774                | 5.42  | —                | —    |
|                           |            |       |               |      |              |      |                   |       |                    |      | 9389                | 15.45 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22634 <sup>■</sup>  | 15.76 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 23528 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 26517 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| <b>8</b>                  | 9161       | 5.8   | —             | —    | —            | —    | 1467A             | 15.46 | —                  | —    | 1476A <sup>■</sup>  | 15.46 | —                | —    |
|                           |            |       |               |      |              |      | 1065A             | 15.56 |                    |      | 1050A <sup>■</sup>  | 15.56 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22635 <sup>■</sup>  | 15.76 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 23531 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 26518 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22418 <sup>■</sup>  | 15.80 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 24514 <sup>*■</sup> | 15.81 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 25505 <sup>*■</sup> | 15.81 |                  |      |
| <b>9</b>                  | 8692       | 5.8   | —             | —    | —            | —    | 9559              | 15.45 | —                  | —    | 9775                | 5.42  | —                | —    |
|                           |            |       |               |      |              |      |                   |       |                    |      | 9390                | 15.45 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| <b>11</b>                 | —          | —     | —             | —    | —            | —    | 9563              | 15.45 | —                  | —    | 9391                | 15.45 | —                | —    |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| <b>12</b>                 | 9741       | 5.8   | —             | —    | —            | —    | 1468A             | 15.46 | —                  | —    | 9776                | 5.42  | —                | —    |
|                           |            |       |               |      |              |      | 1066A             | 15.56 |                    |      | 1477A <sup>■</sup>  | 15.46 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 1051A <sup>■</sup>  | 15.56 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22636 <sup>■</sup>  | 15.76 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 23524 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 26519 <sup>*■</sup> | 15.78 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22421 <sup>■</sup>  | 15.80 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 24515 <sup>*■</sup> | 15.81 |                  |      |
| <b>15</b>                 | 9742       | 5.8   | —             | —    | —            | —    | 9565              | 15.45 | —                  | —    | 9777                | 5.42  | —                | —    |
|                           |            |       |               |      |              |      |                   |       |                    |      | 9392                | 15.45 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| <b>16</b>                 | —          | —     | —             | —    | —            | —    | 3034A             | 15.46 | —                  | —    | 3035A <sup>■</sup>  | 15.46 | —                | —    |
|                           |            |       |               |      |              |      | 1067A             | 15.56 |                    |      | 1052A <sup>■</sup>  | 15.56 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      | 22654 <sup>■</sup>  | 15.76 |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
|                           |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |

\*Armored

▼ Solid conductors

● Duofoil® shield

†Triad

◆ Siamese version

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

♦ Quad



By:



INTERSTATE WIRE INCORPORATED

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1-800-527-0010

## Paired Cable

| No. of Pairs              | Unshielded                    |                                | Spiral Shield |               | Braid Shield |      | Overall Beldfoil®                                                                                                                         |                                                                                                                                                      | Overall Foil/Braid |      | Individual Beldfoil                                                              |                                                                      | Individual Braid |      |
|---------------------------|-------------------------------|--------------------------------|---------------|---------------|--------------|------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|----------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------|------|
|                           | Part No.                      | Page                           | Part No.      | Page          | Part No.     | Page | Part No.                                                                                                                                  | Page                                                                                                                                                 | Part No.           | Page | Part No.                                                                         | Page                                                                 | Part No.         | Page |
| <b>18 AWG (continued)</b> |                               |                                |               |               |              |      |                                                                                                                                           |                                                                                                                                                      |                    |      |                                                                                  |                                                                      |                  |      |
| <b>16</b><br>(cont'd)     |                               |                                |               |               |              |      |                                                                                                                                           |                                                                                                                                                      |                    |      | 23519**                                                                          | 15.78                                                                |                  |      |
|                           |                               |                                |               |               |              |      |                                                                                                                                           |                                                                                                                                                      |                    |      | 26520**                                                                          | 15.78                                                                |                  |      |
| <b>19</b>                 | 9743                          | 5.8                            | —             | —             | —            | —    | —                                                                                                                                         | —                                                                                                                                                    | —                  | —    | —                                                                                | —                                                                    | —                | —    |
| <b>24</b>                 | —                             | —                              | —             | —             | —            | —    | 1471A<br>1068A                                                                                                                            | 15.46<br>15.56                                                                                                                                       | —                  | —    | 1480A■<br>1053A■<br>22637■<br>23542**<br>26521**<br>22419■<br>24520**<br>25517** | 15.46<br>15.56<br>15.76<br>15.78<br>15.78<br>15.80<br>15.81<br>15.81 | —                | —    |
| <b>36</b>                 | —                             | —                              | —             | —             | —            | —    | 1472A<br>1087A                                                                                                                            | 15.46<br>15.56                                                                                                                                       | —                  | —    | 1481A■<br>1054A■<br>23554**<br>26555**                                           | 15.46<br>15.56<br>15.78<br>15.78                                     | —                | —    |
| <b>50</b>                 | —                             | —                              | —             | —             | —            | —    | 3041A<br>1088A                                                                                                                            | 15.46<br>15.56                                                                                                                                       | —                  | —    | 3042A■<br>1038A■                                                                 | 15.46<br>15.56                                                       | —                | —    |
| <b>16 AWG</b>             |                               |                                |               |               |              |      |                                                                                                                                           |                                                                                                                                                      |                    |      |                                                                                  |                                                                      |                  |      |
| <b>1</b>                  | 8471<br>9410<br>1035A<br>9487 | 12.36<br>5.9<br>15.48<br>15.58 | 8780          | 12.16<br>5.24 | —            | —    | 8719<br>9316<br>1030A<br>1101A<br>1000A<br>1018A<br>1023A<br>1114A<br>1115A<br>1116A<br>1117A<br>83951<br>83953<br>9342<br>1118A<br>3090A | 12.16<br>5.22<br>15.48<br>15.48<br>15.53<br>15.53<br>15.53<br>15.54<br>15.54<br>15.54<br>15.54<br>15.54<br>15.54<br>15.58<br>15.58<br>15.58<br>15.58 | —                  | —    | 22646■<br>23501**<br>26500**<br>22416■<br>24500**<br>25504**                     | 15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81                   | —                | —    |
| <b>2</b>                  | 3082K<br>3082KP               | 15.22<br>15.22                 | —             | —             | —            | —    | 3043A<br>1069A                                                                                                                            | 15.48<br>15.58                                                                                                                                       | —                  | —    | 1492A■<br>1055A■<br>22628■<br>23527**<br>26501**<br>22409■<br>24505**<br>25510** | 15.48<br>15.58<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81 | —                | —    |
| <b>3</b>                  | —                             | —                              | —             | —             | —            | —    | 1528A<br>1527A                                                                                                                            | 15.48<br>15.58                                                                                                                                       | —                  | —    | 1037A■                                                                           | 15.58                                                                | —                | —    |
| <b>4</b>                  | —                             | —                              | —             | —             | —            | —    | 1484A<br>1070A                                                                                                                            | 15.48<br>15.58                                                                                                                                       | —                  | —    | 1493A■<br>1039A■<br>22629■<br>23509■<br>26503**<br>22410■<br>24502**<br>25511**  | 15.48<br>15.58<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81 | —                | —    |
| <b>6</b>                  | —                             | —                              | —             | —             | —            | —    | —                                                                                                                                         | —                                                                                                                                                    | —                  | —    | 1040A■<br>22630■<br>23500**<br>26504**<br>22446■<br>24506**<br>25512**           | 15.58<br>15.77<br>15.79<br>15.79<br>15.80<br>15.81<br>15.81          | —                | —    |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◻ Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

## Paired Cable

| No. of Conductors         | Unshielded |       | Spiral Shield |      | Braid Shield |      | Overall Beldfoil® |       | Overall Foil/Braid |      | Individual Beldfoil |       | Individual Braid |      |
|---------------------------|------------|-------|---------------|------|--------------|------|-------------------|-------|--------------------|------|---------------------|-------|------------------|------|
|                           | Part No.   | Page  | Part No.      | Page | Part No.     | Page | Part No.          | Page  | Part No.           | Page | Part No.            | Page  | Part No.         | Page |
| <b>16 AWG (continued)</b> |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| 8                         | —          | —     | —             | —    | —            | —    | 1485A             | 15.48 | —                  | —    | 1494A <sup>■</sup>  | 15.48 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | 1071A             | 15.58 | —                  | —    | 1041A <sup>■</sup>  | 15.58 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 22631 <sup>■</sup>  | 15.77 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 23510 <sup>*■</sup> | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 26505               | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 22411 <sup>■</sup>  | 15.80 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 24503 <sup>*■</sup> | 15.81 | —                | —    |
| 12                        | —          | —     | —             | —    | —            | —    | 1486A             | 15.48 | —                  | —    | 1495A <sup>■</sup>  | 15.48 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | 1072A             | 15.58 | —                  | —    | 1042A <sup>■</sup>  | 15.58 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 22632 <sup>■</sup>  | 15.77 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 23525 <sup>*■</sup> | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 26506 <sup>*■</sup> | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 22412 <sup>■</sup>  | 15.80 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 24504 <sup>*■</sup> | 15.81 | —                | —    |
| 16                        | —          | —     | —             | —    | —            | —    | 3050A             | 15.48 | —                  | —    | 3051A <sup>■</sup>  | 15.48 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | 1073A             | 15.58 | —                  | —    | 1043A <sup>■</sup>  | 15.58 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 22685 <sup>■</sup>  | 15.77 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 23539 <sup>*■</sup> | 15.79 | —                | —    |
| 20                        | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 26507 <sup>*■</sup> | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 1044A <sup>■</sup>  | 15.58 | —                | —    |
| 24                        | —          | —     | —             | —    | —            | —    | 1489A             | 15.48 | —                  | —    | 1498A <sup>■</sup>  | 15.48 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | 1074A             | 15.58 | —                  | —    | 1045A <sup>■</sup>  | 15.58 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 22686 <sup>■</sup>  | 15.77 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 23538 <sup>*■</sup> | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 26508 <sup>*■</sup> | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 22447 <sup>■</sup>  | 15.80 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 24510 <sup>*■</sup> | 15.81 | —                | —    |
| 36                        | —          | —     | —             | —    | —            | —    | 1490A             | 15.48 | —                  | —    | 1499A <sup>■</sup>  | 15.48 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | 1089A             | 15.58 | —                  | —    | 1046A <sup>■</sup>  | 15.58 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | —                 | —     | —                  | —    | 23568 <sup>*■</sup> | 15.79 | —                | —    |
| 50                        | —          | —     | —             | —    | —            | —    | 3056A             | 15.48 | —                  | —    | 26551 <sup>*■</sup> | 15.79 | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | 1090A             | 15.58 | —                  | —    | 3057A <sup>■</sup>  | 15.48 | —                | —    |
| <b>14 AWG</b>             |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| 1                         | 8473       | 12.36 | —             | —    | —            | —    | 8720              | 12.16 | —                  | —    | —                   | —     | —                | —    |
|                           | 9411       | 5.9   | —             | —    | —            | —    | —                 | 5.22  | —                  | —    | —                   | —     | —                | —    |
|                           | 9488       | 15.50 | —             | —    | —            | —    | 9314              | 15.50 | —                  | —    | —                   | —     | —                | —    |
|                           | 3080A      | 15.60 | —             | —    | —            | —    | 9343              | 15.60 | —                  | —    | —                   | —     | —                | —    |
| <b>12 AWG</b>             |            |       |               |      |              |      |                   |       |                    |      |                     |       |                  |      |
| 1                         | 8477       | 12.36 | —             | —    | —            | —    | 8718              | 12.16 | —                  | —    | —                   | —     | —                | —    |
|                           | 9412       | 5.9   | —             | —    | —            | —    | —                 | 5.22  | —                  | —    | —                   | —     | —                | —    |
|                           | 9489       | 15.51 | —             | —    | —            | —    | 9312              | 15.51 | —                  | —    | —                   | —     | —                | —    |
|                           | —          | 15.61 | —             | —    | —            | —    | 9344              | 15.61 | —                  | —    | —                   | —     | —                | —    |
|                           | —          | —     | —             | —    | —            | —    | 3103A             | 15.61 | —                  | —    | —                   | —     | —                | —    |

\*Armored

†Triad

▼ Solid conductors

◆ Siamese version

◼ Quad

● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.



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# Hook-Up and Lead Wire

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Please refer to "Terms of Use of Master Catalog" on page 16.30.

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## Introduction

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Belden® hook-up and lead wire products are manufactured in a variety of materials, sizes and designs to meet rigid industry and government specifications. Manufactured in-house, our hook-up and lead wire manufacturing process begins with copper rod. Our rubber formulation and plastic mixing facilities give us complete control of the product from start to finish. As a result, consistent quality of these products is always assured.

Our hook-up and lead wire products can be used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, lighting, motor leads, heating and cooling equipment, harness fabrication and automotive.

Most of our hook-up and lead wire constructions are available from stock in a wide variety of colors and packages. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find hook-up or lead wire in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Special Ordering Information

#### Number Printed Wire

Thermosetting and thermoplastic constructions can be supplied with printed numbers. Price and delivery information is available upon request.

### Hypalon and Neoprene Constructions

These constructions may require a special topcoat to facilitate printing by customers. Minimum order is 5000' per AWG. Please order the standard item and specify "Top-Coated" and specify color. Orders must be in multiples of standard packages. Price and delivery information is available upon request.

### Manufacturer's Identification

Identification of the hook-up and lead wire is provided by our UL and CSA files numbers or printed name on the wire jacket.

| UL/CSA | File Number | Style                        |
|--------|-------------|------------------------------|
| UL     | E-12683     | 1XXX, 2XXX, 3XXX, 4XXX, 5XXX |
|        | E-9147      | GTO 10                       |
|        | E-6934      | SF-1, SFF-1, SF-2, SFF-2     |
|        | E-3197      | SIS                          |
| CSA    | LL-7874     | All Types                    |

### Appliance Wiring Material (AWM)

Appliance Wiring Material is Underwriter Laboratories, Inc.'s recognized covering of insulated wire and cable intended for internal wiring of appliances and equipment. Each construction satisfies the requirements for use in particular applications. Wiring materials recognized under this classification bear the Underwriters' "Appliance Wiring Material Label."

### UL & CSA Type by Belden Series

| UL Style* | CSA Type | Belden Series Number | Temp. Rating | Page No. |
|-----------|----------|----------------------|--------------|----------|
| 1007      | TR-64    | 328, 99              | 80°C         | 3.4      |
| 1015      | TEW      | 327, 99, 89          | 105°C        | 3.5      |
| 1028      | TEW      | 99, 89               | 105°C        | 3.6      |
| 1061      | AWM      | 99                   | 80°C         | 3.3      |
| 1180      | —        | 830                  | 200°C        | 3.9      |
| 1213      | —        | 830                  | 105°C        | 3.10     |
| 1283      | TEW      | 99                   | 105°C        | 3.6      |
| 1371      | —        | 830                  | 105°C        | 3.11     |
| 1569      | TRSR-64  | 99                   | 105°C        | 3.4      |
| 1855      | —        | —                    | 80°C         | 3.24     |
| 3044      | CL902    | 315                  | 90°C         | 3.18     |
| 3046      | CL903    | 315, 325             | 90°C         | 3.18     |
| 3048      | CL902    | 315                  | 90°C         | 3.18     |
| 3049      | CL902    | 315                  | 90°C         | 3.18     |
| 3069      | SEWF-2   | 308                  | 150°C        | 3.21     |
| 3070      | SEWF-2   | 308                  | 150°C        | 3.21     |
| 3071      | SEW-2    | 324                  | 200°C        | 3.20     |
| 3074      | SEW-2    | 324                  | 200°C        | 3.20     |
| 3075      | SEW-2    | 324                  | 200°C        | 3.20     |
| 3101      | SEWF-2   | 308                  | 150°C        | 3.21     |
| 3123      | —        | 340                  | 150°C        | 3.21     |
| 3125      | SEW-2    | 308                  | 200°C        | 3.20     |
| 3126      | SEW-2    | 308                  | 200°C        | 3.20     |
| 3135      | —        | 334                  | 200°C        | 3.19     |
| 3173      | CL1251   | 356                  | 125°C        | 3.14     |
| 3190      | CL1052   | 349                  | 105°C        | 3.17     |
| 3191      | CL1052   | 344                  | 105°C        | 3.16     |
| 3192      | CL1052   | 344                  | 105°C        | 3.16     |
| 3193      | CL1052   | 344                  | 105°C        | 3.16     |
| 3195      | CL1251   | 356                  | 125°C        | 3.14     |
| 3196      | CL1251   | 356                  | 125°C        | 3.14     |
| 3199      | CL1054   | 357                  | 105°C        | 3.14     |
| 3212      | AWM      | 333                  | 150°C        | 3.19     |
| 3213      | AWM      | 333                  | 150°C        | 3.19     |
| 3214      | AWM      | 333                  | 150°C        | 3.19     |
| 3239      | —        | —                    | 80°C         | 3.22     |
| 3321      | AWM      | 354                  | 150°C        | 3.15     |
| 3340      | CL1254   | 371                  | 150°C        | 3.12     |
| 3374      | CL1254   | 371                  | 150°C        | 3.12     |
| 3436      | CL1251   | 354                  | 150°C        | 3.15     |
| 3484      | AWM      | 372                  | 125°C        | 3.13     |
| 3499      | —        | 375                  | 150°C        | 3.13     |
| GTO-10    | GTO-10   | 390                  | 105°C        | 3.24     |
| SIS       | —        | 310                  | 90°C         | 3.15     |

\*These UL Styles are the Belden product which are listed in this catalog.

Hypalon and Teflon are DuPont trademarks.



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## PVC

**UL AWM Style 1061**  
**300V, 80°C**  
 (CSA AWM)

**Product Description**

Tinned copper, semi-rigid PVC insulated (solid conductors suitable for wire wrap applications).

**Solid Conductor**

**Stranded Conductor**


| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

**300V, 80°C (UL & CSA)**
**UL AWM Style 1061 • CSA AWM**

|             |            |      |     |      |      |      |        |      |       |               |
|-------------|------------|------|-----|------|------|------|--------|------|-------|---------------|
| <b>9978</b> | 30 (solid) | .010 | .25 | .030 | .76  | 100  | 30.5   | .1   | .05   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 1.0  | .50   | 1-5, 7-10, 13 |
| <b>9987</b> | 30 (7x38)  | .010 | .25 | .032 | .81  | 100  | 30.5   | .1   | .05   | 2, 7-10       |
|             |            |      |     |      |      | 1000 | 304.8  | 3.0  | 1.40  | 2, 7-10       |
| <b>9977</b> | 28 (solid) | .010 | .25 | .033 | .84  | 100  | 30.5   | .1   | .05   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 1.0  | .50   | 1-5, 7-10, 13 |
| <b>9986</b> | 28 (7x36)  | .010 | .25 | .035 | .89  | 100  | 30.5   | .1   | .05   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 3.0  | 1.40  | 1-5, 7-10, 13 |
| <b>9976</b> | 26 (solid) | .010 | .25 | .036 | .91  | 100  | 30.5   | .2   | .10   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 2.0  | .90   | 1-5, 7-10, 13 |
| <b>9985</b> | 26 (7x34)  | .010 | .25 | .039 | .99  | 100  | 30.5   | .2   | .10   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 2.0  | .90   | 1-5, 7-10, 13 |
| <b>9975</b> | 24 (solid) | .010 | .25 | .040 | 1.02 | 100  | 30.5   | .2   | .10   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 4.0  | 1.80  | 1-5, 7-10, 13 |
| <b>9984</b> | 24 (7x32)  | .010 | .25 | .044 | 1.12 | 100  | 30.5   | .2   | .10   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 3.0  | 1.40  | 1-5, 7-10, 13 |
| <b>9979</b> | 22 (solid) | .010 | .25 | .047 | 1.19 | 1000 | 304.8  | 4.0  | 1.80  | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 5000 | 1524.0 | 15.0 | 6.80  | 1-5, 7-10, 13 |
| <b>9983</b> | 22 (7x30)  | .010 | .25 | .050 | 1.27 | 1000 | 304.8  | 30.0 | 13.60 | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 5000 | 1524.0 | 30.0 | 13.60 | 1-5, 7-10, 13 |
| <b>9982</b> | 20 (7x28)  | .010 | .25 | .057 | 1.45 | 100  | 30.5   | .5   | .20   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 5.0  | 2.30  | 1-5, 7-10, 13 |
| <b>9917</b> | 20 (10x30) | .010 | .25 | .056 | 1.42 | 5000 | 1524.0 | 25.0 | 11.40 | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 5.0  | 2.30  | 1-5, 7-10, 13 |
| <b>9911</b> | 18 (16x30) | .010 | .25 | .067 | 1.70 | 1000 | 304.8  | 7.0  | 3.20  | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 5000 | 1524.0 | 35.0 | 15.90 | 1-5, 7-10, 13 |
| <b>9981</b> | 18 (19x30) | .010 | .25 | .066 | 1.68 | 100  | 30.5   | .8   | .40   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 7.0  | 3.20  | 1-5, 7-10, 13 |
| <b>9980</b> | 16 (19x28) | .010 | .25 | .078 | 1.98 | 100  | 30.5   | 1.3  | .60   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 12.0 | 5.50  | 1-5, 7-10, 13 |
| <b>9909</b> | 16 (26x30) | .010 | .25 | .080 | 2.03 | 100  | 30.5   | 1.2  | .50   | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 1000 | 304.8  | 12.0 | 5.50  | 1-5, 7-10, 13 |
|             |            |      |     |      |      | 5000 | 1524.0 | 50.0 | 22.70 | 1-5, 7-10, 13 |

## PVC

**UL AWM Style 1007  
300V, 80°C**

(JQA-F-)

VW-1

**Product Description**

Tinned copper, PVC insulated. Rated 80°C, 300V. Rated 600V peak for electronic circuits, and internal wiring of electronic and electrical equipment.

**UL and CSA Dual-Rated Wire****UL AWM Style 1007 — 300V, 80°C**  
(CSA Type TR-64, 90°C)**UL AWM Style 1569 — 300V, 105°C**  
(CSA Type TRSR-64, 105°C)

(JQA-F- [except 9989])

VW-1

**Product Description**

Tinned copper, PVC insulated. Rated 105°C, 300V. Rated 600V peak for electronic circuits, and internal wiring of electronic and electrical equipment.

**UL AWM Style 1007  
300V, 80°C**

(CSA Type TR-64, 90°C)

(JQA-F-)

VW-1

**Recommended maximum baking cycles:**  
24 hours @ 300°F (149°C)



Stranded tinned copper conductor  
(Uni-Strand®)

| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

**300V, 80°C (UL)****UL AWM Style 1007 • JQA-F-**

|      |           |      |     |      |      |      |       |     |    |               |
|------|-----------|------|-----|------|------|------|-------|-----|----|---------------|
| 9930 | 30 (7x38) | .015 | .38 | .044 | 1.12 | 100  | 30.5  | .2  | .1 | 1-5, 7-10, 13 |
|      |           |      |     |      |      | 1000 | 304.8 | 2.0 | .9 |               |

**Dual-Rated • 300V, 80°C and 300V, 105°C (UL & CSA)****UL AWM Style 1007 and 1569 • CSA Types TR-64 and TRSR-64 • JQA-F-**

|      |            |      |     |      |      |      |        |      |      |                   |
|------|------------|------|-----|------|------|------|--------|------|------|-------------------|
| 9928 | 28 (7x36)  | .015 | .38 | .047 | 1.19 | 100  | 30.5   | .2   | .1   | 1-5, 7, 9, 10, 13 |
|      |            |      |     |      |      | 1000 | 304.8  | 2.0  | .9   | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 5000 | 1524.0 | 10.0 | 4.5  | 1-5, 7-10, 13     |
| 9926 | 26 (7x34)  | .015 | .38 | .051 | 1.30 | 100  | 30.5   | .2   | .1   | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 1000 | 304.8  | 3.0  | 1.4  | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 5000 | 1524.0 | 10.0 | 4.5  | 1-5, 7-10, 13     |
| 9923 | 24 (7x32)  | .015 | .38 | .056 | 1.42 | 100  | 30.5   | .3   | .1   | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 1000 | 304.8  | 4.0  | 1.8  | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 5000 | 1524.0 | 15.0 | 6.8  | 1-5, 7-10, 13     |
| 9921 | 22 (7x30)  | .015 | .38 | .062 | 1.57 | 100  | 30.5   | .4   | .2   | 1-10, 13          |
|      |            |      |     |      |      | 1000 | 304.8  | 5.0  | 2.3  | 1-10, 13          |
|      |            |      |     |      |      | 5000 | 1524.0 | 20.0 | 9.1  | 1-10, 13          |
| 9919 | 20 (7x28)  | .015 | .38 | .069 | 1.75 | 100  | 30.5   | .7   | .3   | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 1000 | 304.8  | 6.0  | 2.7  | 1-5, 7-10, 13     |
| 9920 | 20 (10x30) | .015 | .38 | .067 | 1.70 | 1000 | 304.8  | 6.0  | 2.7  | 1-10, 13          |
|      |            |      |     |      |      | 5000 | 1524.0 | 25.0 | 11.4 | 1-10, 13          |
| 9918 | 18 (16x30) | .015 | .38 | .079 | 2.01 | 100  | 30.5   | .9   | .4   | 1-10, 13          |
|      |            |      |     |      |      | 1000 | 304.8  | 8.0  | 3.6  | 1-10, 13          |
|      |            |      |     |      |      | 5000 | 1524.0 | 40.0 | 18.2 | 1-10, 13          |
| 9916 | 16 (26x30) | .015 | .38 | .092 | 2.34 | 100  | 30.5   | 1.3  | .6   | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 1000 | 304.8  | 12.0 | 5.5  | 1-5, 7-10, 13     |
|      |            |      |     |      |      | 5000 | 1524.0 | 55.0 | 25.0 | 1-5, 7-10, 13     |

**UL AWM Style 1569 • CSA Type TR-64 and TRSR-64**

|      |            |      |     |      |      |      |        |      |      |               |
|------|------------|------|-----|------|------|------|--------|------|------|---------------|
| 9989 | 14 (41x30) | .015 | .38 | .110 | 2.79 | 1000 | 304.8  | 17.0 | 7.7  | 1-5, 7-10, 13 |
|      |            |      |     |      |      | 5000 | 1524.0 | 85.0 | 38.6 | 1-5, 7-10, 13 |

**300V, 80°C (UL) • 300V, 90°C (CSA)****UL AWM Style 1007 • CSA Type TR-64 • JQA-F-**

|       |                            |      |     |      |      |                   |        |      |      |                  |
|-------|----------------------------|------|-----|------|------|-------------------|--------|------|------|------------------|
| 32822 | 22 (7x30)<br>[.36 (7x.25)] | .015 | .38 | .062 | 1.58 | 5000 <sup>†</sup> | 1524.0 | 25.0 | 11.4 | 1-5, 7-9, 10, 13 |
|       |                            |      |     |      |      |                   |        |      |      |                  |
| 32820 | 20 (7x28)<br>[.56 (7x.32)] | .015 | .38 | .068 | 1.73 | 5000 <sup>†</sup> | 1524.0 | 30.0 | 13.6 | 9, 10            |
|       |                            |      |     |      |      |                   |        |      |      |                  |

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.



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## PVC

**UL AWM Style 1015****600V, 105°C**

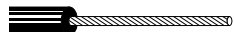
(CSA Type TEW)

(JQA-F-)

VW-1

**Product Description**

Tinned copper, PVC insulated. Rated 105°C, 600V. Rated 2500V peak for electronic circuits, and internal wiring of electronic and electrical equipment.



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

**600V, 105°C (UL & CSA)****UL AWM Style 1015 • CSA Type TEW • JQA-F-**

|      |             |      |     |      |      |      |        |      |      |                     |
|------|-------------|------|-----|------|------|------|--------|------|------|---------------------|
| 9924 | 24 (7x32)   | .030 | .76 | .088 | 2.24 | 100  | 30.5   | .7   | .3   | 1-5, 9, 10, 13      |
|      |             |      |     |      |      | 1000 | 304.8  | 6.0  | 2.7  | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 5000 | 1524.0 | 25.0 | 11.4 | 1-5, 7-10, 13       |
| 8920 | 22 (7x30)   | .030 | .76 | .093 | 2.36 | 100  | 30.5   | .8   | .4   | 1-5, 9, 10, 13      |
|      |             |      |     |      |      | 1000 | 304.8  | 7.0  | 3.2  | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 5000 | 1524.0 | 30.0 | 13.6 | 1-5, 7-10, 13       |
| 8919 | 20 (10x30)  | .030 | .76 | .100 | 2.54 | 100  | 30.5   | .9   | .4   | 1-5, 9, 10, 13      |
|      |             |      |     |      |      | 1000 | 304.8  | 8.0  | 3.6  | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 5000 | 1524.0 | 40.0 | 18.2 | 1-5, 7-10, 13       |
| 8918 | 18 (16x30)  | .030 | .76 | .110 | 2.79 | 100  | 30.5   | 1.2  | .5   | 1-5, 9, 10, 13, 189 |
|      |             |      |     |      |      | 1000 | 304.8  | 10.0 | 4.5  | 1-5, 7-10, 13, 189  |
|      |             |      |     |      |      | 5000 | 1524.0 | 50.0 | 22.7 | 1-5, 7-10, 13       |
| 8915 | 18 (solid)  | .030 | .76 | .105 | 2.67 | 1000 | 304.8  | 10.0 | 4.5  | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 5000 | 1524.0 | 50.0 | 22.7 | 1-5, 7-10, 13       |
| 8917 | 16 (26x30)  | .030 | .76 | .123 | 3.12 | 100  | 30.5   | 2.2  | 1.0  | 1-5, 9, 10, 13, 189 |
|      |             |      |     |      |      | 500  | 152.4  | 8.0  | 3.6  | 1-5, 9, 10, 13      |
|      |             |      |     |      |      | 1000 | 304.8  | 14.0 | 6.4  | 1-5, 7-10, 13, 189  |
| 8916 | 14 (41x30)  | .030 | .76 | .138 | 3.51 | 5000 | 1524.0 | 70.0 | 31.8 | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 100  | 30.5   | 2.8  | 1.3  | 1-5, 7-10, 13, 189  |
|      |             |      |     |      |      | 500  | 152.4  | 10.5 | 4.8  | 1-5, 7-10, 13, 189  |
| 9912 | 12 (65x30)  | .030 | .76 | .158 | 4.01 | 4000 | 1219.2 | 80.0 | 36.4 | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 100  | 30.5   | 3.7  | 1.7  | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 250  | 76.2   | 7.8  | 3.5  | 1-5, 7-10, 13       |
| 9910 | 10 (65x28)  | .030 | .76 | .180 | 4.57 | 2000 | 609.6  | 60.0 | 27.3 | 1-5, 7-10, 13       |
|      |             |      |     |      |      | 100  | 30.5   | 5.1  | 2.3  | 2, 4, 9, 10         |
|      |             |      |     |      |      | 250  | 76.2   | 11.8 | 5.3  | 2, 4, 9, 10         |
| 8910 | 10 (105x30) | .030 | .76 | .186 | 4.72 | 2000 | 609.6  | 86.0 | 39.1 | 2, 9, 10            |
|      |             |      |     |      |      | 500  | 152.4  | 23.5 | 10.7 | 1-5, 7-10, 13       |
| 8910 | 10 (105x30) | .030 | .76 | .186 | 4.72 | 2000 | 609.6  | 92.0 | 41.8 | 1-5, 7-10, 13       |

**UL AWM Style 1015****600V, 105°C**

(CSA Type TEW)

(JQA-F-)

VW-1

**Product Description**

Uni-Strand® conductors.

**Recommended maximum baking cycles:**  
48 hours @ 275°F (135°C) • 24 hours @ 300°F (149°C)



Stranded tinned copper conductor (Uni-Strand®)

| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

**600V, 105°C (UL & CSA)****UL AWM Style 1015 • CSA Type TEW • JQA-F-**

|       |                            |      |     |      |      |      |        |      |      |                    |
|-------|----------------------------|------|-----|------|------|------|--------|------|------|--------------------|
| 32722 | 22 (7x30)<br>[.36 (7x.25)] | .030 | .76 | .093 | 2.36 | 5000 | 1524.0 | 30.0 | 13.6 | 2, 4, 8, 9, 10, 13 |
|       |                            |      |     |      |      |      |        |      |      |                    |
| 32720 | 20 (7x28)<br>[.56 (7x.32)] | .030 | .76 | .099 | 2.52 | 4000 | 1219.2 | 32.0 | 14.5 | 1-5, 9, 10, 12, 13 |
|       |                            |      |     |      |      |      |        |      |      |                    |
| 32718 | 18 (7x26)<br>[.90 (7x.40)] | .030 | .76 | .108 | 2.74 | 4000 | 1219.2 | 44.0 | 20.0 | 2-5, 7, 9, 10, 13  |
|       |                            |      |     |      |      |      |        |      |      |                    |



# PVC

## UL AWM Style 1028 and 1015 600V, 105°C

(CSA Type TEW)

VW-1

### Product Description

Tinned copper, PVC insulated.



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

### 600V, 105°C (UL & CSA)

| UL AWM Style 1028 and 1015 • CSA Type TEW |            |      |      |      |      |      |       |       |      |               |
|-------------------------------------------|------------|------|------|------|------|------|-------|-------|------|---------------|
| 9908                                      | 8 (84x27)  | .045 | 1.14 | .250 | 6.35 | 100  | 30.5  | 8.4   | 3.8  | 2, 4, 9, 10   |
|                                           |            |      |      |      |      | 250  | 76.2  | 19.0  | 8.7  | 2, 4, 9, 10   |
| 8908                                      | 8 (133x29) | .045 | 1.14 | .262 | 6.65 | 250  | 76.2  | 20.0  | 9.1  | 1-5, 7-10, 13 |
|                                           |            |      |      |      |      | 1500 | 457.2 | 114.0 | 51.8 | 2-5, 7-10, 13 |

## UL AWM Style 1283 and 1015 600V, 105°C

(CSA Type TEW)

VW-1

### Product Description

Tinned copper, PVC insulated.



### 600V, 105°C (UL & CSA)

| UL AWM Style 1283 and 1015 • CSA Type TEW |            |      |      |      |      |      |       |       |      |               |
|-------------------------------------------|------------|------|------|------|------|------|-------|-------|------|---------------|
| 9906                                      | 6 (133x27) | .060 | 1.52 | .331 | 8.41 | 100  | 30.5  | 13.5  | 6.1  | 1-5, 7-10, 13 |
|                                           |            |      |      |      |      | 1000 | 304.8 | 122.0 | 55.5 | 1-5, 7-10, 13 |
| 9904                                      | 4 (133x25) | .060 | 1.52 | .392 | 9.96 | 50   | 15.2  | 11.2  | 5.1  | 1-5, 7-10, 13 |
|                                           |            |      |      |      |      | 500  | 152.4 | 100.5 | 45.7 | 1-5, 7-10, 13 |



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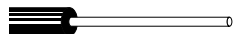
## PVC

### (Type MW) MIL-W-76C-PVC 1000V, 80°C\*

#### Product Description

Tinned copper, PVC insulated, medium wall. The extruded PVC insulation is flame and ozone resistant and inert to most chemicals, oils, and solvents. Covers single conductor, PVC insulated hook-up wire for internal wiring of electrical and electronic equipment.

#### Solid Conductor



#### Stranded Conductor



### (Type B) MIL-W-16878/1-PVC 600V, 105°C\*

#### Product Description

Tinned copper, PVC insulated. Covers insulated wire for internal wiring of meters, panels, and electrical or electronic equipment. Temperatures to 105°C. For high-temperature MIL-Spec hook-up wire, see pages 3.9 to 3.11.



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

#### 1000V, 80°C (MIL-Spec)

| (Type MW) MIL-W-76C-PVC |               |      |      |      |      |      |       |      |      |                         |
|-------------------------|---------------|------|------|------|------|------|-------|------|------|-------------------------|
| 8538                    | 24 (solid)    | .017 | 0.43 | .055 | 1.40 | 100  | 30.5  | .3   | .1   | 1-13                    |
|                         | MW-C24 (1) A  |      |      |      |      | 1000 | 304.8 | 3.0  | 1.4  | 1-10                    |
| 8525                    | 24 (7x32)     | .017 | 0.43 | .058 | 1.47 | 100  | 30.5  | .3   | .1   | 1-22                    |
|                         | MW-C24 (7) A  |      |      |      |      | 1000 | 304.8 | 4.0  | 1.8  | 1-22                    |
| 8530                    | 22 (solid)    | .017 | 0.43 | .059 | 1.50 | 100  | 30.5  | .4   | .2   | 1-13                    |
|                         | MW-C22 (1) A  |      |      |      |      | 1000 | 304.8 | 4.0  | 1.8  | 1-13                    |
| 8524                    | 22 (7x30)     | .017 | 0.43 | .064 | 1.63 | 100  | 30.5  | .4   | .2   | 1-22, 24-30             |
|                         | MW-C22 (7) A  |      |      |      |      | 1000 | 304.8 | 5.0  | 2.3  | 1-30                    |
| 8529                    | 20 (solid)    | .017 | 0.43 | .066 | 1.68 | 100  | 30.5  | .7   | .3   | 1-10, 12, 13            |
|                         | MW-C20 (1) A  |      |      |      |      | 1000 | 304.8 | 6.0  | 2.7  | 1-10, 13                |
| 8523                    | 20 (10x30)    | .017 | 0.43 | .070 | 1.78 | 100  | 30.5  | .7   | .3   | 1-25, 27, 29, 30        |
|                         | MW-C20 (10) A |      |      |      |      | 1000 | 304.8 | 6.0  | 2.7  | 1-24, 29, 30            |
| 8522                    | 18 (16x30)    | .017 | 0.43 | .080 | 2.03 | 100  | 30.5  | .9   | .4   | 1-30                    |
|                         | MW-C18 (16) A |      |      |      |      | 1000 | 304.8 | 8.0  | 3.6  | 1-30                    |
| 8521                    | 16 (26x30)    | .019 | 0.48 | .098 | 2.49 | 100  | 30.5  | 1.4  | .6   | 1-22                    |
|                         | MW-C16 (26) A |      |      |      |      | 1000 | 304.8 | 12.0 | 5.5  | 1-22                    |
| 8520                    | 14 (41x30)    | .018 | 0.46 | .111 | 2.82 | 100  | 30.5  | 1.9  | .9   | 1-11, 13-16, 18, 19, 22 |
|                         | MW-C14 (41) A |      |      |      |      | 1000 | 304.8 | 17.0 | 7.7  | 1-10, 13-22             |
| 8527                    | 12 (65x30)    | .018 | 0.46 | .128 | 3.25 | 100  | 30.5  | 3.3  | 1.5  | 1-7, 9, 10              |
|                         | MW-C12 (65) A |      |      |      |      | 1000 | 304.8 | 25.0 | 11.4 | 1-10                    |

\*Certification available upon special request.

#### 600V, 105°C (MIL-Spec)

| (Type B) MIL-W-16878/1-PVC |            |      |     |      |      |      |       |      |      |                    |
|----------------------------|------------|------|-----|------|------|------|-------|------|------|--------------------|
| 8597                       | 28 (7x36)  | .010 | .25 | .035 | .89  | 100  | 30.5  | .1   | .05  | 1-10               |
|                            | B-28       |      |     |      |      | 1000 | 304.8 | 1.0  | .50  | 1-10               |
| 8505                       | 26 (7x34)  | .010 | .25 | .039 | .99  | 100  | 30.5  | .2   | .10  | 1-10, 14-22        |
|                            | B-26       |      |     |      |      | 1000 | 304.8 | 4.0  | 1.80 | 1-10, 14-22        |
| 8504                       | 24 (7x32)  | .010 | .25 | .044 | 1.12 | 100  | 30.5  | .2   | .10  | 1-10, 14-22        |
|                            | B-24       |      |     |      |      | 1000 | 304.8 | 3.0  | 1.40 | 1-10, 14-22        |
| 8503                       | 22 (7x30)  | .010 | .25 | .050 | 1.27 | 100  | 30.5  | .3   | .10  | 1-10, 14-22        |
|                            | B-22       |      |     |      |      | 1000 | 304.8 | 4.0  | 1.80 | 1-10, 14-22        |
| 8502                       | 20 (7x28)  | .010 | .25 | .058 | 1.47 | 100  | 30.5  | .5   | .20  | 1-10, 14-16, 18-20 |
|                            | B-20       |      |     |      |      | 1000 | 304.8 | 5.0  | 2.30 | 1-10, 14-16, 18-20 |
| 8501                       | 18 (7x26)  | .010 | .25 | .068 | 1.73 | 100  | 30.5  | .9   | .40  | 1-10, 14-22        |
|                            | B-18       |      |     |      |      | 1000 | 304.8 | 8.0  | 3.60 | 1-10, 14-22        |
| 8500                       | 16 (19x29) | .010 | .25 | .079 | 2.01 | 100  | 30.5  | 1.2  | .50  | 1-10, 14-22        |
|                            | B-16       |      |     |      |      | 1000 | 304.8 | 11.0 | 5.00 | 1-10, 14-22        |

\*Certification available upon special request.

PVC

Hook-Up Wire on Racks

Wire Dispenser Kits

Product Description

Great for R and D labs, engineers, servicemen and hobbyists.

Specify Part No. 8800 for Rack only.



| Part No.              | No. of Spools | Type of Wire (Part No.) | Temp. Rating | AWG (stranding) | Spool Lengths |      | Standard Unit Weight |     | Colors in Kits<br>(See Color Codes Chart on Page 3.29) |  |  |  |  |  |
|-----------------------|---------------|-------------------------|--------------|-----------------|---------------|------|----------------------|-----|--------------------------------------------------------|--|--|--|--|--|
|                       |               |                         |              |                 | Ft.           | m    | Lbs.                 | kg  |                                                        |  |  |  |  |  |
| Wire Dispenser Kits   |               |                         |              |                 |               |      |                      |     |                                                        |  |  |  |  |  |
| Hook-Up Wire on Racks |               |                         |              |                 |               |      |                      |     |                                                        |  |  |  |  |  |
| 8816                  | 8             | Tinned PVC (8522)       | 80°C         | 18 (16x30)      | 25            | 7.6  | 2.5                  | 1.1 | 1,2,3,4,5,6,9,10                                       |  |  |  |  |  |
| 8824                  | 8             | Tinned PVC (8523)       | 80°C         | 20 (10x30)      | 25            | 7.6  | 2.1                  | 1.0 | 1,2,3,4,5,6,9,10                                       |  |  |  |  |  |
| 8825                  | 5             | Tinned PVC (8502)       | 105°C        | 20 (7x28)       | 100           | 30.5 | 3.1                  | 1.4 | 2,4,5,9,10                                             |  |  |  |  |  |
| 9531                  | 5             | Tinned PVC (8524)       | 80°C         | 22 (7x30)       | 100           | 30.5 | 2.7                  | 1.2 | 2,5,6,9,10                                             |  |  |  |  |  |

# Teflon®

## High-Temperature

### UL AWM Style 1180

#### 300V, 200°C

(Type EE) MIL-W-16878/5

Teflon — 1000V, 200°C

VW-1

### Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon.



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

**300V, 200°C (UL) • 1000V, 200°C (MIL-Spec)**

#### UL AWM Style 1180 • (Type EE) MIL-W-16878/5 — Teflon

|               |            |      |     |      |      |                   |       |      |     |                |
|---------------|------------|------|-----|------|------|-------------------|-------|------|-----|----------------|
| <b>83023*</b> | 24 (19x36) | .015 | .38 | .053 | 1.35 | 100 <sup>†</sup>  | 30.5  | .4   | .2  | 1-10           |
|               |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 3.0  | 1.4 | 2, 4, 5, 9, 10 |
|               |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 4.0  | 1.8 | 1-10           |
| <b>83025</b>  | 22 (7x30)  | .015 | .38 | .060 | 1.52 | 100 <sup>†</sup>  | 30.5  | .5   | .2  | 1-7, 9, 10     |
|               |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 3.0  | 1.4 | 2, 9, 10       |
|               |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 5.0  | 2.3 | 1-7, 9, 10     |
| <b>83026*</b> | 22 (19x34) | .015 | .38 | .059 | 1.50 | 100 <sup>†</sup>  | 30.5  | .5   | .2  | 1-10           |
|               |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 3.0  | 1.4 | 2, 9, 10       |
|               |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 5.0  | 2.3 | 1-10           |
| <b>83027*</b> | 20 (19x32) | .015 | .38 | .068 | 1.73 | 100 <sup>†</sup>  | 30.5  | .8   | .4  | 1-10           |
|               |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 4.0  | 1.8 | 2, 9, 10       |
|               |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 7.0  | 3.2 | 1-10           |
| <b>83028</b>  | 20 (7x28)  | .015 | .38 | .068 | 1.73 | 100 <sup>†</sup>  | 30.5  | .8   | .4  | 1-10           |
|               |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 7.0  | 3.2 | 1-10           |
| <b>83029*</b> | 18 (19x30) | .015 | .38 | .077 | 1.96 | 100 <sup>†</sup>  | 30.5  | 1.1  | .5  | 1-10           |
|               |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 5.5  | 2.5 | 2, 5, 6, 9, 10 |
|               |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 10.0 | 4.5 | 1-10           |
| <b>83030*</b> | 16 (19x29) | .015 | .38 | .088 | 2.24 | 100 <sup>†</sup>  | 30.5  | 1.3  | .6  | 1-10           |
|               |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 6.5  | 3.0 | 2, 9, 10       |
|               |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 13.0 | 5.9 | 1-10           |

\*Complies with MIL-W-16878 except stranding.

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.



# Teflon®

## High-Temperature

### UL AWM Style 1213 — 105°C

(Type E) MIL-W-16878/4

Teflon — 600V, 200°C

VW-1

#### Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon.



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 105°C (UL) • 600V, 200°C (MIL-Spec)

#### UL AWM Style 1213 • (Type E) MIL-W-16878/4 — Teflon

|        |            |      |     |      |      |                   |       |     |      |          |
|--------|------------|------|-----|------|------|-------------------|-------|-----|------|----------|
| 83000  | 30 (7x38)  | .010 | .25 | .032 | .81  | 100 <sup>†</sup>  | 30.5  | .1  | .05  | 1-10     |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 1.0 | .50  | 1-10     |
|        |            |      |     |      |      | 100 <sup>†</sup>  | 30.5  | .2  | .10  | 1-10     |
| 83001* | 28 (7x36)  | .010 | .25 | .035 | .89  | 100 <sup>†</sup>  | 30.5  | .2  | .10  | 1-10     |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 2.0 | .90  | 1-10     |
|        |            |      |     |      |      | 100 <sup>†</sup>  | 30.5  | .2  | .10  | 1-10     |
| 83002  | 26 (7x34)  | .010 | .25 | .037 | .94  | 100 <sup>†</sup>  | 30.5  | .2  | .10  | 1-10     |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 1.0 | .50  | 9        |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 3.0 | 1.40 | 1-10     |
| 83003* | 24 (19x36) | .010 | .25 | .043 | 1.09 | 100 <sup>†</sup>  | 30.5  | .3  | .10  | 1-10     |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 1.5 | .70  | 1-10     |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 3.0 | 1.40 | 1-10     |
| 83004  | 24 (7x32)  | .010 | .25 | .043 | 1.09 | 100 <sup>†</sup>  | 30.5  | .3  | .10  | 1-10     |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 1.5 | .70  | 2, 10    |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 3.0 | 1.40 | 1-10     |
| 83005  | 22 (7x30)  | .010 | .25 | .049 | 1.24 | 100 <sup>†</sup>  | 30.5  | .4  | .20  | 1-10     |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 3.0 | 1.40 | 2, 9, 10 |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 4.0 | 1.80 | 1-10     |
| 83006* | 22 (19x34) | .010 | .25 | .048 | 1.22 | 100 <sup>†</sup>  | 30.5  | .4  | .20  | 1-10     |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 3.0 | 1.40 | 1-10     |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 4.0 | 1.80 | 1-10     |
| 83007* | 20 (19x32) | .010 | .25 | .056 | 1.42 | 100 <sup>†</sup>  | 30.5  | .5  | .20  | 1-10     |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 4.0 | 1.80 | 2, 9, 10 |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 6.0 | 2.70 | 1-10     |
| 83008  | 20 (7x28)  | .010 | .25 | .058 | 1.47 | 100 <sup>†</sup>  | 30.5  | .5  | .20  | 1-10     |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 4.0 | 1.80 | 1-10     |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 6.0 | 2.70 | 1-10     |

\*Complies with MIL-W-16878 except stranding.

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.



By:


**INTERSTATE WIRE**  
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Belden Industries, Inc. Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

## Teflon®

### High-Temperature

#### UL AWM Style 1371 — 105°C

(Type E) MIL-W-16878/4

Teflon — 600V, 200°C

VW-1

#### Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon.



#### UL AWM Style 1371 — 105°C

(Type ET) MIL-W-16878/6

Teflon — 250V, 200°C

VW-1

#### Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon.



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

#### 105°C (UL) • 600V, 200°C (MIL-Spec)

##### UL AWM Style 1371 • (Type E) MIL-W-16878/4 — Teflon

|        |            |      |     |      |      |                   |       |      |     |      |
|--------|------------|------|-----|------|------|-------------------|-------|------|-----|------|
| 83009* | 18 (19x30) | .011 | .28 | .068 | 1.73 | 100 <sup>†</sup>  | 30.5  | 1.0  | .5  | 1-10 |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 4.5  | 2.0 | 1-10 |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 9.0  | 4.1 | 1-10 |
| 83010* | 16 (19x29) | .012 | .30 | .076 | 1.93 | 100 <sup>†</sup>  | 30.5  | 1.2  | .5  | 1-10 |
|        |            |      |     |      |      | 500 <sup>†</sup>  | 152.4 | 6.0  | 2.7 | 1-10 |
|        |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 11.0 | 5.0 | 1-10 |

\*Complies with MIL-W-16878 except stranding.

†Spools may contain more than one piece. Length may vary ±10% from length shown.

#### 105°C (UL) • 250V, 200°C (MIL-Spec)

##### UL AWM Style 1371 • (Type ET) MIL-W-16878/6 — Teflon

|       |            |      |     |      |      |                   |       |     |      |                   |
|-------|------------|------|-----|------|------|-------------------|-------|-----|------|-------------------|
| 83041 | 32 (7x40)  | .006 | .15 | .022 | .56  | 100 <sup>†</sup>  | 30.5  | .1  | .05  | 6, 7, 10          |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 1.0 | .50  | 6, 7, 10          |
| 83043 | 30 (7x38)  | .006 | .15 | .024 | .61  | 100 <sup>†</sup>  | 30.5  | .1  | .05  | 2, 5, 7-10        |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 1.0 | .50  | 2, 5, 7, 9, 10    |
| 83045 | 28 (7x36)  | .006 | .15 | .027 | .69  | 100 <sup>†</sup>  | 30.5  | .1  | .05  | 1, 2, 5, 6, 9, 10 |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 1.0 | .50  | 1, 2, 5, 6, 9, 10 |
| 83046 | 26 (7x34)  | .006 | .15 | .031 | .79  | 100 <sup>†</sup>  | 30.5  | .2  | .10  | 1-4, 6-9          |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 2.0 | .90  | 1-4, 6-10         |
| 83047 | 24 (7x32)  | .006 | .15 | .036 | .91  | 100 <sup>†</sup>  | 30.5  | .2  | .10  | 6, 8-10           |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 2.0 | .90  | 2, 6, 8-10        |
| 83048 | 24 (19x36) | .006 | .15 | .036 | .91  | 100 <sup>†</sup>  | 30.5  | .2  | .10  | 1-3, 5, 7, 8, 10  |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 2.0 | .90  | 1-3, 5, 7, 8, 10  |
| 83049 | 22 (7x30)  | .006 | .15 | .042 | 1.07 | 100 <sup>†</sup>  | 30.5  | .3  | .10  | 1-10              |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 4.0 | 1.80 | 1-10              |
| 83050 | 22 (19x34) | .006 | .15 | .042 | 1.07 | 100 <sup>†</sup>  | 30.5  | .3  | .10  | 1-3, 5-9          |
|       |            |      |     |      |      | 1000 <sup>†</sup> | 304.8 | 4.0 | 1.80 | 1-3, 5-9          |

†Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

**EPDM****High-Temperature****UL AWM Style 3340 and 3374  
600V, 125°C Flex/150°C No Flex  
(CSA Type CL1254)****Product Description**

The insulation used for this High-Temperature lead wire is a chemically cross-linked ethylene-propylene diene elastomer. Never before could you find many of the characteristics that are found in Silicone and Hypalon® combined into one insulation. This 150°C EPDM wire offers more abrasion resistance than Hypalon... has the temperature rating of Silicone... at a price less than Silicone. EPDM has exceptional qualities that help you achieve new levels of economy and quality. 150°C EPDM wire is recommended for Class 130(B), 155(F) and also in some 180(H) systems. It's UL Recognized under Style 3374 as a 150°C—600V Appliance Wiring Material. The CSA Listing, as a coil lead, is 125°C, 600V. For additional technical information, see Technical Information pages at the end of this section.

**Recommended maximum baking cycles:**

24 hours @ 350°F (177°C) • 4 hours @ 375°F (190°C)

**Stranded Conductor**

Stranded tinned  
copper conductor

**Separator Over Conductor**

Separator

| Part No. | AWG (stranding)<br>(sq. mm)<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

**600V, 125°C Flex/150°C No Flex (UL) • 600V, 125°C (CSA)**

| <b>UL AWM Style 3340 and 3374 • CSA Type CL1254</b> |                                    |      |      |      |       |                   |        |       |       |                    |
|-----------------------------------------------------|------------------------------------|------|------|------|-------|-------------------|--------|-------|-------|--------------------|
| <b>37118</b>                                        | 18 (16x30)<br>[.82 (16x.25)]       | .045 | 1.14 | .142 | 3.61  | 500 <sup>†</sup>  | 152.4  | 7.5   | 3.4   | 2, 4, 5, 9, 10, 13 |
|                                                     |                                    |      |      |      |       | 5000 <sup>†</sup> | 1524.0 | 70.0  | 31.8  | 2, 4, 9, 10, 13    |
| <b>37116</b>                                        | 16 (26x30)<br>[1.32 (26x.25)]      | .045 | 1.14 | .154 | 3.91  | 500 <sup>†</sup>  | 152.4  | 9.5   | 4.3   | 2, 4, 5, 9, 10, 13 |
|                                                     |                                    |      |      |      |       | 4000 <sup>†</sup> | 1219.2 | 72.0  | 32.7  | 10                 |
|                                                     |                                    |      |      |      |       | 5000 <sup>†</sup> | 1524.0 | 90.0  | 40.9  | 10                 |
| <b>37114</b>                                        | 14 (41x30)<br>[2.08 (41x.25)]      | .045 | 1.14 | .169 | 4.29  | 500 <sup>†</sup>  | 152.4  | 12.5  | 5.7   | 2, 10              |
|                                                     |                                    |      |      |      |       | 4000 <sup>†</sup> | 1219.2 | 96.0  | 43.6  | 2, 10              |
|                                                     |                                    |      |      |      |       | 5000 <sup>†</sup> | 1524.0 | 125.0 | 56.8  | 10                 |
| <b>37112</b>                                        | 12 (65x30)<br>[3.29 (65x.25)]      | .045 | 1.14 | .190 | 4.83  | 500 <sup>†</sup>  | 152.4  | 18.0  | 8.2   | 2, 10              |
|                                                     |                                    |      |      |      |       | 3000 <sup>†</sup> | 914.4  | 105.0 | 47.7  | 10                 |
|                                                     |                                    |      |      |      |       | 5000 <sup>†</sup> | 1524.0 | 175.0 | 79.5  | 10                 |
| <b>37110</b>                                        | 10 (65x28)<br>[5.23 (65x.32)]      | .060 | 1.52 | .240 | 6.10  | 500 <sup>†</sup>  | 152.4  | 27.5  | 12.5  | 10                 |
|                                                     |                                    |      |      |      |       | 2000 <sup>†</sup> | 609.6  | 108.0 | 49.2  | 10                 |
|                                                     |                                    |      |      |      |       | 5000 <sup>†</sup> | 1524.0 | 275.0 | 125.0 | 10                 |
| <b>37108*</b>                                       | 8 (84x27)<br>[8.60 (84x.36)]       | .080 | 2.03 | .327 | 8.31  | 250 <sup>†</sup>  | 76.2   | 24.3  | 11.0  | 10                 |
|                                                     |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4  | 50.0  | 22.7  | 10                 |
|                                                     |                                    |      |      |      |       | 2500 <sup>†</sup> | 762.0  | 235.0 | 106.8 | 10                 |
| <b>37106*</b>                                       | 6 (84x25)<br>[13.66 (84x.46)]      | .080 | 2.03 | .383 | 9.73  | 100 <sup>†</sup>  | 30.5   | 14.2  | 6.5   | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 35.0  | 15.9  | 10                 |
|                                                     |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4  | 70.5  | 32.0  | 10                 |
|                                                     |                                    |      |      |      |       | 2500 <sup>†</sup> | 762.0  | 345.0 | 156.8 | 10                 |
| <b>37104*</b>                                       | 4 (105x24)<br>[21.53 (105x.51)]    | .080 | 2.03 | .432 | 10.97 | 100 <sup>†</sup>  | 30.5   | 20.3  | 9.2   | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 51.8  | 23.5  | 10                 |
|                                                     |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4  | 98.5  | 44.8  | 10                 |
|                                                     |                                    |      |      |      |       | 1000 <sup>†</sup> | 304.8  | 196.0 | 89.1  | 10                 |
| <b>37103*</b>                                       | 3 (133x24)<br>[27.28 (133x.51)]    | .080 | 2.03 | .453 | 11.51 | 100 <sup>†</sup>  | 30.5   | 24.4  | 11.1  | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 61.8  | 28.1  | 10                 |
| <b>37102*</b>                                       | 2 (163x24)<br>[33.43 (163x.51)]    | .080 | 2.03 | .494 | 12.55 | 100 <sup>†</sup>  | 30.5   | 31.1  | 14.1  | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 73.8  | 33.5  | 10                 |
|                                                     |                                    |      |      |      |       | 1000 <sup>†</sup> | 304.8  | 286.0 | 130.0 | 10                 |
| <b>37101*</b>                                       | 1 (210x24)<br>[43.07 (210x.51)]    | .095 | 2.41 | .583 | 14.81 | 100 <sup>†</sup>  | 30.5   | 41.0  | 18.6  | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 95.0  | 43.2  | 10                 |
|                                                     |                                    |      |      |      |       | 1000 <sup>†</sup> | 304.8  | 376.0 | 170.9 | 10                 |
| <b>37190*</b>                                       | 1/0 (262x24)<br>[53.73 (262x.51)]  | .095 | 2.41 | .633 | 16.08 | 50 <sup>†</sup>   | 15.2   | 24.7  | 11.2  | 10                 |
|                                                     |                                    |      |      |      |       | 100 <sup>†</sup>  | 30.5   | 48.3  | 22.0  | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 115.5 | 52.5  | 10                 |
|                                                     |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4  | 223.5 | 101.6 | 10                 |
| <b>37100*</b>                                       | 2/0 (504x26)<br>[67.85 (504x.41)]  | .095 | 2.41 | .698 | 17.73 | 50 <sup>†</sup>   | 15.2   | 30.9  | 14.0  | 10                 |
|                                                     |                                    |      |      |      |       | 100 <sup>†</sup>  | 30.5   | 58.8  | 26.7  | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 141.8 | 64.4  | 10                 |
|                                                     |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4  | 279.5 | 127.0 | 10                 |
| <b>37130*</b>                                       | 3/0 (630x26)<br>[84.81 (630x.41)]  | .095 | 2.41 | .758 | 19.25 | 50 <sup>†</sup>   | 15.2   | 38.5  | 17.5  | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 174.0 | 79.1  | 10                 |
|                                                     |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4  | 346.0 | 157.3 | 10                 |
| <b>37140*</b>                                       | 4/0 (805x26)<br>[108.37 (805x.41)] | .095 | 2.41 | .849 | 21.57 | 50 <sup>†</sup>   | 15.2   | 46.3  | 21.0  | 10                 |
|                                                     |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2   | 215.8 | 98.1  | 10                 |
|                                                     |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4  | 429.5 | 195.2 | 10                 |

\*Separator over conductor.

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.



By: **INTERSTATE WIRE CO.**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

Hypalon is a DuPont trademark.

**EPDM****High-Temperature****UL AWM Style 3484**  
**600V, 125°C**  
(CSA Type AWM)**Product Description**

This series of EPDM (ethylene-propylene diene elastomer) will provide you with a lead wire which possesses excellent characteristics. The reduced wall thickness results in a UL and CSA Rating of 600V, 125°C. For additional technical information, see Technical Information pages at the end of this section.



Stranded tinned  
copper conductor

**UL AWM Style 3499**  
**7500V, 150°C**  
**High-Voltage EPDM****Product Description**

The insulation used for this High-Voltage wire is a chemically cross-linked ethylene-propylene diene elastomer with a separator for improved strippability. EPDM is naturally corona resistant and more heat resistant than many other rubber compounds and is able to take the longer bake cycles frequently needed for the big jobs. EPDM has superior weather resistance and low temperature pliability. EPDM is used in many high voltage applications. For additional technical information, see Technical Information pages at the end of this section.

**Recommended maximum baking cycles:**  
24 hours @ 350°F (177°C) • 4 hours @ 375°F (190°C)



Separator  
Stranded tinned  
copper conductor

| Part No. | AWG (stranding)<br>(sq. mm)<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

**600V, 125°C (UL & CSA)**

| <b>UL AWM Style 3484 • CSA Type AWM</b> |                               |      |     |      |      |   |   |   |   |                |
|-----------------------------------------|-------------------------------|------|-----|------|------|---|---|---|---|----------------|
| <b>37222</b>                            | 22 (7x30)<br>[.36 (7x.25)]    | .030 | .76 | .093 | 2.36 | * | * | * | * | Special Order* |
| <b>37220</b>                            | 20 (10x30)<br>[.51 (10x.25)]  | .030 | .76 | .102 | 2.59 | * | * | * | * | Special Order* |
| <b>37218</b>                            | 18 (16x30)<br>[.81 (16x.25)]  | .030 | .76 | .109 | 2.77 | * | * | * | * | Special Order* |
| <b>37216</b>                            | 16 (26x30)<br>[1.32 (26x.25)] | .030 | .76 | .123 | 3.12 | * | * | * | * | Special Order* |
| <b>37214</b>                            | 14 (41x30)<br>[2.08 (41x.25)] | .030 | .76 | .138 | 3.51 | * | * | * | * | Special Order* |
| <b>37212</b>                            | 12 (65x30)<br>[3.29 (65x.25)] | .030 | .76 | .158 | 4.01 | * | * | * | * | Special Order* |

\*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1.**

**7500V, 150°C (UL)**

| <b>UL AWM Style 3499</b> |                                    |      |      |      |       |       |       |       |       |    |
|--------------------------|------------------------------------|------|------|------|-------|-------|-------|-------|-------|----|
| <b>37508</b>             | 8 (84x27)<br>[8.60 (84x.36)]       | .125 | 3.18 | .423 | 10.74 | 50'   | 15.2  | 9.6   | 4.4   | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 66.0  | 30.0  | 10 |
|                          |                                    |      |      |      |       | 1000' | 304.8 | 130.0 | 59.1  | 10 |
| <b>37506</b>             | 6 (84x25)<br>[13.66 (84x.46)]      | .125 | 3.18 | .470 | 11.94 | 50'   | 15.2  | 11.8  | 5.3   | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 90.0  | 40.9  | 10 |
|                          |                                    |      |      |      |       | 1000' | 304.8 | 176.0 | 80.0  | 10 |
| <b>37504</b>             | 4 (105x24)<br>[21.53 (105x.51)]    | .125 | 3.18 | .526 | 13.36 | 50'   | 15.2  | 15.0  | 6.8   | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 122.0 | 55.5  | 10 |
|                          |                                    |      |      |      |       | 1000' | 304.8 | 240.0 | 109.1 | 10 |
| <b>37502</b>             | 2 (163x24)<br>[33.43 (163x.51)]    | .125 | 3.18 | .581 | 14.76 | 50'   | 15.2  | 19.4  | 8.8   | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 167.0 | 75.9  | 10 |
|                          |                                    |      |      |      |       | 1000' | 304.8 | 333.0 | 151.4 | 10 |
| <b>37501</b>             | 1 (210x24)<br>[43.07 (210x.51)]    | .125 | 3.18 | .638 | 16.21 | 50'   | 15.2  | 23.1  | 10.5  | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 206.0 | 93.6  | 10 |
| <b>37590</b>             | 1/0 (262x24)<br>[53.73 (262x.51)]  | .125 | 3.18 | .688 | 17.48 | 50'   | 15.2  | 27.3  | 12.4  | 10 |
|                          |                                    |      |      |      |       | 250'  | 76.2  | 123.5 | 56.1  | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 243.0 | 110.5 | 10 |
| <b>37500</b>             | 2/0 (504x26)<br>[67.85 (504x.41)]  | .125 | 3.18 | .753 | 19.13 | 50'   | 15.2  | 34.2  | 15.5  | 10 |
|                          |                                    |      |      |      |       | 250'  | 76.2  | 150.5 | 68.4  | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 302.5 | 137.5 | 10 |
| <b>37530</b>             | 3/0 (630x26)<br>[84.81 (630x.41)]  | .125 | 3.18 | .813 | 20.65 | 50'   | 15.2  | 40.5  | 18.4  | 10 |
|                          |                                    |      |      |      |       | 250'  | 76.2  | 184.0 | 83.6  | 10 |
| <b>37540</b>             | 4/0 (805x26)<br>[108.37 (805x.41)] | .125 | 3.18 | .909 | 23.09 | 50'   | 15.2  | 48.7  | 22.1  | 10 |
|                          |                                    |      |      |      |       | 250'  | 76.2  | 228.8 | 104.0 | 10 |
|                          |                                    |      |      |      |       | 500'  | 152.4 | 472.0 | 214.5 | 10 |

\*Spools may contain more than one piece. Length may vary ±10% from length shown.

**XL-Dur®****UL AWM Style 3199**  
**300V, 105°C**  
(CSA Type CL1054)**Product Description**

This insulation is a chemically cross-linked polyethylene applied in a single extrusion. This construction has excellent thermal aging characteristics, moisture resistance, and solvent resistance. It provides an economic alternative to Hypalon® where extreme flexibility is not required. The insulation resists deformation when subjected to momentary high temperatures in customer assembly processes.

**Recommended maximum baking cycles:**

24 hours @ 300°F (149°C) • 12 hours @ 325°F (163°C)  
8 hours @ 350°F (177°C)

Stranded tinned  
copper conductor**UL AWM Style 3173, 3195, 3196**  
**600V, 125°C**  
(CSA Type CL1251)**Product Description**

This insulation is a chemically cross-linked polyethylene applied in a single extrusion. This construction has excellent thermal aging characteristics, moisture resistance, and solvent resistance. It provides an economic alternative to Hypalon where extreme flexibility is not required. The insulation resists deformation when subjected to momentary high temperatures in customer assembly processes. The 356-series of XL-DUR is recommended for Class 130(B) as motor leads.

**Recommended maximum baking cycles:**

24 hours @ 300°F (149°C) • 12 hours @ 325°F (163°C)  
8 hours @ 350°F (177°C)

**Stranded Conductor**Stranded tinned  
copper conductor**Separator Over Conductor**

Separator

Hypalon is a DuPont trademark.

| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

**300V, 105°C (UL & CSA)****UL AWM Style 3199 • CSA Type CL1054**

|       |                                |      |     |      |      |       |        |      |      |                        |
|-------|--------------------------------|------|-----|------|------|-------|--------|------|------|------------------------|
| 35722 | 22 (7x30)<br>[.36 (7x.25)]     | .015 | .38 | .062 | 1.58 | *     | *      | *    | *    | Special Order*         |
| 35720 | 20 (10x30)<br>[.51 (10x.25)]   | .015 | .38 | .073 | 1.85 | *     | *      | *    | *    | Special Order*         |
| 35718 | 18 (19x30.5)<br>[.83 (19x.24)] | .015 | .38 | .078 | 1.98 | 5000† | 1524.0 | 40.0 | 18.2 | 1, 3, 5, 6, 9, 10, B02 |
| 35716 | 16 (19x29)<br>[1.23 (19x.29)]  | .015 | .38 | .091 | 2.31 | *     | *      | *    | *    | Special Order*         |

\*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.

† Spools may contain more than one piece. Length may vary ±10% from length shown.

**600V, 125°C (UL & CSA)****UL AWM Style 3173 • CSA Type CL1251**

|       |                               |      |     |      |      |       |        |       |      |                          |
|-------|-------------------------------|------|-----|------|------|-------|--------|-------|------|--------------------------|
| 35622 | 22 (7x30)<br>[.36 (7x.25)]    | .030 | .76 | .093 | 2.36 | 5000† | 1524.0 | 35.0  | 15.9 | 2, 9, 10                 |
| 35620 | 20 (10x30)<br>[.51 (10x.25)]  | .030 | .76 | .101 | 2.57 | 500†  | 152.4  | 5.0   | 2.3  | 10                       |
|       |                               |      |     |      |      | 5000† | 1524.0 | 40.0  | 18.2 | 1, 2, 4, 6, 9, 10        |
| 35618 | 18 (16x30)<br>[.81 (16x.25)]  | .030 | .76 | .109 | 2.77 | 500†  | 152.4  | 6.0   | 2.7  | 2, 4, 5, 10, 13          |
|       |                               |      |     |      |      | 5000† | 1524.0 | 55.0  | 25.0 | 1-10, 12, 13<br>620, B02 |
| 35616 | 16 (26x30)<br>[1.32 (26x.25)] | .030 | .76 | .122 | 3.10 | 500†  | 152.4  | 8.5   | 3.9  | 2, 4, 5, 9, 10           |
|       |                               |      |     |      |      | 5000† | 1524.0 | 75.0  | 34.1 | 1-6, 8-10, B02           |
| 35614 | 14 (41x30)<br>[2.08 (41x.25)] | .030 | .76 | .137 | 3.48 | 500†  | 152.4  | 10.5  | 4.8  | 10                       |
|       |                               |      |     |      |      | 5000† | 1524.0 | 105.0 | 47.7 | 2-5, 6, 9, 10            |
| 35612 | 12 (65x30)<br>[3.29 (65x.25)] | .030 | .76 | .153 | 3.89 | 500†  | 152.4  | 15.0  | 6.8  | 10                       |
|       |                               |      |     |      |      | 3000† | 914.4  | 90.0  | 40.9 | 9, 10                    |
| 35610 | 10 (65x28)<br>[5.23 (65x.32)] | .030 | .76 | .177 | 4.50 | 2000† | 609.6  | 86.0  | 39.1 | 9, 10                    |

**UL AWM Style 3195 • CSA Type CL1251**

|         |                                |      |      |      |      |       |       |       |      |       |
|---------|--------------------------------|------|------|------|------|-------|-------|-------|------|-------|
| 35608†† | 8 (133x29)<br>[8.60 (133x.29)] | .045 | 1.14 | .263 | 6.68 | 2000† | 609.6 | 158.0 | 71.8 | 9, 10 |
|---------|--------------------------------|------|------|------|------|-------|-------|-------|------|-------|

**UL AWM Style 3196 • CSA Type CL1251**

|         |                                 |      |      |      |      |       |       |       |       |       |
|---------|---------------------------------|------|------|------|------|-------|-------|-------|-------|-------|
| 35606†† | 6 (133x27)<br>[13.61 (133x.36)] | .060 | 1.52 | .333 | 8.46 | 2000† | 609.6 | 252.0 | 114.5 | 9, 10 |
|---------|---------------------------------|------|------|------|------|-------|-------|-------|-------|-------|

† Spools may contain more than one piece. Length may vary ±10% from length shown.

†† Separator over conductor.



By:



INTERSTATE WIRE CO. INCORPORATED  
Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com  
**1-800-527-0010**

## XL-Dur® (High-Temperature) and SIS Wire

### UL AWM Style 3436 and 3321 XL-Dur — 600V, 150°C (CSA Type CL1251 and AWM)

#### Product Description

This series of chemically cross-linked polyethylene lead wire is available for higher temperature applications. It is UL Recognized to 600V, 150°C. As with other cross-linked lead wire, it has excellent heat aging characteristics in combination with excellent electrical and physical properties.



Stranded tinned  
copper conductor

### UL Type SIS — 600V, 90°C (UL)

#### Product Description

For wiring switchboards, panelboards, distribution boards, including instrument and control wiring in these applications. The wire is covered by a separator for improved strippability.



Separator  
Stranded tinned  
copper conductor

| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 600V, 150°C (UL & CSA)

#### UL AWM Style 3436 and 3321 • CSA Type CL1251 and AWM

|              |                               |      |     |      |      |                   |        |       |      |                |
|--------------|-------------------------------|------|-----|------|------|-------------------|--------|-------|------|----------------|
| <b>35422</b> | 22 (7x30)<br>[.36 (7x.25)]    | .030 | .76 | .093 | 2.36 | *                 | *      | *     | *    | Special Order* |
| <b>35420</b> | 20 (10x30)<br>[.51 (10x.25)]  | .030 | .76 | .102 | 2.59 | 500 <sup>†</sup>  | 152.4  | 4.5   | 2.0  | 9, 10          |
|              |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 40.0  | 18.2 | 9, 10          |
| <b>35418</b> | 18 (16x30)<br>[.81 (16x.25)]  | .030 | .76 | .110 | 2.79 | 500 <sup>†</sup>  | 152.4  | 5.5   | 2.5  | 9, 10          |
|              |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 50.0  | 22.7 | 9, 10          |
| <b>35416</b> | 16 (26x30)<br>[1.32 (26x.25)] | .030 | .76 | .123 | 3.12 | 500 <sup>†</sup>  | 152.4  | 7.5   | 3.4  | 9, 10          |
|              |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 70.0  | 31.8 | 9, 10          |
| <b>35414</b> | 14 (41x30)<br>[2.08 (41x.25)] | .030 | .76 | .138 | 3.51 | 500 <sup>†</sup>  | 152.4  | 10.0  | 4.5  | 9, 10          |
|              |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 95.0  | 43.2 | 9, 10          |
| <b>35412</b> | 12 (65x30)<br>[3.29 (65x.25)] | .030 | .76 | .153 | 3.89 | 500 <sup>†</sup>  | 152.4  | 14.5  | 6.6  | 9, 10          |
|              |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 140.0 | 63.6 | 9, 10          |
| <b>35410</b> | 10 (65x28)<br>[5.23 (65x.32)] | .030 | .76 | .177 | 4.50 | 500 <sup>†</sup>  | 152.4  | 22.0  | 10.0 | 9, 10          |
|              |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 210.0 | 95.5 | 9, 10          |

\*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1.**

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

#### 600V, 90°C (UL)

#### UL Type SIS • VW-1

|                                    |                                |      |      |      |      |                   |        |       |      |   |
|------------------------------------|--------------------------------|------|------|------|------|-------------------|--------|-------|------|---|
| <b>31014</b>                       | 14 (41x30)<br>[2.08 (41x.25)]  | .030 | .76  | .144 | 3.66 | 2500 <sup>†</sup> | 762.2  | 50.0  | 22.7 | 8 |
|                                    |                                |      |      |      |      | 5000 <sup>†</sup> | 1524.0 | 105.0 | 47.7 | 8 |
| <b>31012</b>                       | 12 (65x30)<br>[3.29 (65x.25)]  | .030 | .76  | .167 | 4.24 | 2500 <sup>†</sup> | 762.2  | 77.5  | 35.2 | 8 |
|                                    |                                |      |      |      |      | 3000 <sup>†</sup> | 914.4  | 93.0  | 42.3 | 8 |
| <b>31010</b><br><small>new</small> | 10 (65x28)<br>[5.23 (65x.32)]  | .030 | .76  | .184 | 4.67 | 2500 <sup>†</sup> | 762.2  | 105.0 | 47.7 | 8 |
| <b>31008</b>                       | 8 (133x29)<br>[8.60 (133x.29)] | .045 | 1.14 | .268 | 6.75 | 2500 <sup>†</sup> | 762.2  | 190.0 | 86.4 | 8 |

#### UL Type SIS

|                                     |                                |      |      |      |      |                   |       |       |      |   |
|-------------------------------------|--------------------------------|------|------|------|------|-------------------|-------|-------|------|---|
| <b>31014N</b><br><small>new</small> | 14 (41x30)<br>[2.08 (41x.25)]  | .030 | .76  | .144 | 3.66 | 2500 <sup>†</sup> | 762.2 | 52.5  | 23.9 | 8 |
| <b>31012N</b><br><small>new</small> | 12 (65x30)<br>[3.29 (65x.25)]  | .030 | .76  | .167 | 4.24 | 2500 <sup>†</sup> | 762.2 | 77.5  | 35.2 | 8 |
| <b>31010N</b><br><small>new</small> | 10 (65x28)<br>[5.23 (65x.32)]  | .030 | .76  | .184 | 4.67 | 2500 <sup>†</sup> | 762.2 | 107.5 | 48.9 | 8 |
| <b>31008N</b><br><small>new</small> | 8 (133x29)<br>[8.60 (133x.29)] | .045 | 1.14 | .268 | 6.75 | 2500 <sup>†</sup> | 762.2 | 197.5 | 89.8 | 8 |

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

# Hypalon®

## UL AWM Style 3191 600V, 105°C (CSA Type CL1053)

### Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties. Hypalon is recommended for motor leads for Class 130(B) insulation systems. It may be considered as an alternative to Silicone rubber to withstand 155°C varnish baking temperatures, but is not suitable for operating temperatures above Class 130(B).

**Recommended maximum baking cycles:**  
24 hours @ 300°F (149°C)



Stranded tinned copper conductor

## UL AWM Style 3191, 3192, 3193 600V, 105°C (CSA Type CL1052, 300V)

### Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties. Hypalon is recommended for motor leads for Class 130(B) insulation systems. It may be considered as an alternative to Silicone rubber to withstand 155°C varnish baking temperatures, but is not suitable for operating temperatures above Class 130(B).

**Recommended maximum baking cycles:**  
24 hours @ 300°F (149°C)

### Stranded Conductor



Stranded tinned copper conductor

### Separator Over Conductor



Separator

Hypalon is a DuPont trademark.

| Part No. | AWG (stranding)<br>(sq. mm)<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

### 600V, 105°C (UL & CSA)

| UL AWM Style 3191 • CSA Type CL1053 |                               |      |      |      |      |                   |        |       |      |                    |
|-------------------------------------|-------------------------------|------|------|------|------|-------------------|--------|-------|------|--------------------|
| 34418                               | 18 (16x30)<br>[.81 (16x.25)]  | .045 | 1.14 | .142 | 3.61 | 100 <sup>†</sup>  | 30.5   | 2.3   | 1.0  | 2, 10              |
|                                     |                               |      |      |      |      | 500 <sup>†</sup>  | 152.4  | 8.0   | 3.6  | 2, 4, 5, 8-10, 13  |
|                                     |                               |      |      |      |      | 5000 <sup>†</sup> | 1524.0 | 75.0  | 34.1 | 2, 4, 5, 8, 10, 13 |
| 34416                               | 16 (26x30)<br>[1.32 (26x.25)] | .045 | 1.14 | .155 | 3.94 | 100 <sup>†</sup>  | 30.5   | 2.8   | 1.3  | 2, 10              |
|                                     |                               |      |      |      |      | 500 <sup>†</sup>  | 152.4  | 10.5  | 4.8  | 2, 4, 5, 8-10, 13  |
|                                     |                               |      |      |      |      | 4000 <sup>†</sup> | 1219.2 | 80.0  | 36.4 | 8-10               |
| 34414                               | 14 (41x30)<br>[2.08 (41x.25)] | .045 | 1.14 | .170 | 4.32 | 100 <sup>†</sup>  | 30.5   | 3.5   | 1.6  | 2, 8, 10           |
|                                     |                               |      |      |      |      | 500 <sup>†</sup>  | 152.4  | 13.5  | 6.1  | 2, 5, 8, 10        |
|                                     |                               |      |      |      |      | 4000 <sup>†</sup> | 1219.2 | 108.0 | 49.1 | 2, 8, 10           |
| 34412                               | 12 (65x30)<br>[3.29 (65x.25)] | .045 | 1.14 | .190 | 4.83 | 100 <sup>†</sup>  | 30.5   | 4.4   | 2.0  | 2, 8, 10           |
|                                     |                               |      |      |      |      | 500 <sup>†</sup>  | 152.4  | 21.5  | 9.8  | 2, 5, 6, 8, 10     |
|                                     |                               |      |      |      |      | 3000 <sup>†</sup> | 914.4  | 114.0 | 51.8 | 2, 8, 10           |

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

### 600V, 105°C (UL) • 300V, 105°C (CSA)

| UL AWM Style 3191 • CSA Type CL1052 <sup>††</sup> |                                    |      |      |      |       |                   |       |       |      |       |
|---------------------------------------------------|------------------------------------|------|------|------|-------|-------------------|-------|-------|------|-------|
| 34410                                             | 10 (65x28)<br>[5.23 (65x.32)]      | .045 | 1.14 | .209 | 5.31  | 100 <sup>†</sup>  | 30.5  | 5.8   | 2.6  | 8, 10 |
|                                                   |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4 | 25.5  | 11.6 | 8, 10 |
|                                                   |                                    |      |      |      |       | 2000 <sup>†</sup> | 609.6 | 100.0 | 45.5 | 8, 10 |
| UL AWM Style 3192 • CSA Type CL1052 <sup>††</sup> |                                    |      |      |      |       |                   |       |       |      |       |
| 34408*                                            | 8 (84x27)<br>[8.60 (84x.36)]       | .060 | 1.52 | .290 | 7.37  | 100 <sup>†</sup>  | 30.5  | 9.9   | 4.5  | 8, 10 |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 24.3  | 11.0 | 8, 10 |
| 34406*                                            | 6 (84x25)<br>[13.66 (84x.46)]      | .060 | 1.52 | .343 | 8.71  | 100 <sup>†</sup>  | 30.5  | 13.7  | 6.2  | 8, 10 |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 34.3  | 15.6 | 10    |
|                                                   |                                    |      |      |      |       | 1000 <sup>†</sup> | 304.8 | 136.0 | 61.8 | 10    |
| 34404*                                            | 4 (105x24)<br>[21.53 (105x.51)]    | .060 | 1.52 | .399 | 10.14 | 100 <sup>†</sup>  | 30.5  | 19.4  | 8.8  | 8, 10 |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 51.0  | 23.2 | 10    |
|                                                   |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4 | 97.0  | 44.1 | 10    |
| 34403*                                            | 3 (133x24)<br>[27.28 (133x.51)]    | .060 | 1.52 | .420 | 10.69 | 500 <sup>†</sup>  | 152.4 | 118.0 | 53.6 | 10    |
| 34402*                                            | 2 (163x24)<br>[33.43 (163x.51)]    | .060 | 1.52 | .454 | 11.53 | 100 <sup>†</sup>  | 30.5  | 30.3  | 13.8 | 8, 10 |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 70.8  | 32.2 | 10    |
|                                                   |                                    |      |      |      |       | 500 <sup>†</sup>  | 152.4 | 139.0 | 63.2 | 10    |
| UL AWM Style 3193 • CSA Type CL1052 <sup>††</sup> |                                    |      |      |      |       |                   |       |       |      |       |
| 34401*                                            | 1 (210x24)<br>[43.07 (210x.51)]    | .080 | 2.03 | .557 | 14.15 | 50 <sup>†</sup>   | 15.2  | 20.2  | 9.2  | 10    |
|                                                   |                                    |      |      |      |       | 100 <sup>†</sup>  | 30.5  | 42.3  | 19.2 | 8, 10 |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 97.0  | 44.1 | 10    |
| 34490*                                            | 1/0 (262x24)<br>[53.73 (262x.51)]  | .080 | 2.03 | .607 | 15.42 | 50 <sup>†</sup>   | 15.2  | 25.7  | 11.7 | 8, 10 |
|                                                   |                                    |      |      |      |       | 100 <sup>†</sup>  | 30.5  | 48.9  | 22.2 | 10    |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 114.8 | 52.2 | 10    |
| 34400*                                            | 2/0 (504x26)<br>[67.85 (504x.41)]  | .080 | 2.03 | .668 | 16.97 | 50 <sup>†</sup>   | 15.2  | 30.4  | 13.8 | 8     |
|                                                   |                                    |      |      |      |       | 100 <sup>†</sup>  | 30.5  | 57.9  | 26.3 | 10    |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 139.5 | 63.4 | 10    |
| 34430*                                            | 3/0 (630x26)<br>[84.81 (630x.41)]  | .080 | 2.03 | .732 | 18.59 | 50 <sup>†</sup>   | 15.2  | 38.5  | 17.5 | 10    |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 175.8 | 79.9 | 10    |
| 34440*                                            | 4/0 (805x26)<br>[108.37 (805x.41)] | .080 | 2.03 | .819 | 20.80 | 50 <sup>†</sup>   | 15.2  | 46.2  | 21.0 | 8, 10 |
|                                                   |                                    |      |      |      |       | 250 <sup>†</sup>  | 76.2  | 215.0 | 97.7 | 10    |

\* Separator over conductor.

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

<sup>††</sup>CSA requires additional wall thickness in sizes 10 AWG and larger to meet CL1053 requirements.



By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

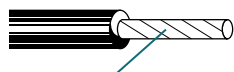


## Hypalon®

### UL AWM Style 3190 300V, 105°C (CSA Type CL1052)

#### Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties. Hypalon is recommended for motor leads for Class 130(B) insulation systems. It may be considered as an alternative to Silicone rubber to withstand 155°C varnish baking temperatures, but is not suitable for operating temperatures above Class 130(B).



Stranded tinned copper conductor

### 5000V High-Voltage Hypalon

#### Product Description

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties.



Separator  
Stranded tinned copper conductor

| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 300V, 105°C (UL & CSA)

| UL AWM Style 3190 • CSA Type CL1052 |                               |      |     |      |      |                   |        |      |      |                |
|-------------------------------------|-------------------------------|------|-----|------|------|-------------------|--------|------|------|----------------|
| 34922                               | 22 (7x30)<br>[.36 (7x.25)]    | .030 | .76 | .093 | 2.36 | 5000 <sup>†</sup> | 1524.0 | 35.0 | 15.9 | 10             |
| 34920                               | 20 (10x30)<br>[.51 (10x.25)]  | .030 | .76 | .100 | 2.54 | 5000 <sup>†</sup> | 1524.0 | 45.0 | 20.5 | 8, 10          |
| 34918                               | 18 (16x30)<br>[.81 (16x.25)]  | .030 | .76 | .110 | 2.79 | 500 <sup>†</sup>  | 152.4  | 6.5  | 3.0  | 2, 4, 10       |
|                                     |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 55.0 | 25.0 | 2, 4, 10       |
| 34916                               | 16 (26x30)<br>[1.32 (26x.25)] | .030 | .76 | .123 | 3.12 | 500 <sup>†</sup>  | 152.4  | 9.0  | 4.1  | 2, 9, 10       |
|                                     |                               |      |     |      |      | 5000 <sup>†</sup> | 1524.0 | 80.0 | 36.4 | 10             |
| 34914                               | 14 (41x30)<br>[2.08 (41x.25)] | .030 | .76 | .138 | 3.51 | *                 | *      | *    | *    | Special Order* |

\*Contact Belden's Customer Service Department for order requirements. 1-800-BELDEN-1.

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

#### 5000V

| High-Voltage |                                    |      |      |      |       |                  |       |       |       |    |
|--------------|------------------------------------|------|------|------|-------|------------------|-------|-------|-------|----|
| 36108        | 8 (84x27)<br>[8.60 (84x.36)]       | .150 | 3.81 | .480 | 12.19 | 50 <sup>†</sup>  | 15.2  | 11.6  | 5.3   | 10 |
|              |                                    |      |      |      |       | 500 <sup>†</sup> | 152.4 | 86.5  | 39.3  | 10 |
| 36106        | 6 (84x25)<br>[13.66 (84x.46)]      | .150 | 3.81 | .532 | 13.51 | 50 <sup>†</sup>  | 15.2  | 14.2  | 6.4   | 10 |
|              |                                    |      |      |      |       | 500 <sup>†</sup> | 152.4 | 113.5 | 51.6  | 10 |
| 36104        | 4 (105x24)<br>[21.53 (105x.51)]    | .150 | 3.81 | .588 | 14.94 | 50 <sup>†</sup>  | 15.2  | 15.6  | 7.1   | 10 |
|              |                                    |      |      |      |       | 500 <sup>†</sup> | 152.4 | 148.0 | 67.3  | 10 |
| 36102        | 2 (163x24)<br>[33.43 (163x.51)]    | .150 | 3.81 | .643 | 16.33 | 50 <sup>†</sup>  | 15.2  | 22.4  | 10.2  | 10 |
|              |                                    |      |      |      |       | 500 <sup>†</sup> | 152.4 | 194.0 | 88.2  | 10 |
| 36101        | 1 (210x24)<br>[43.07 (210x.51)]    | .150 | 3.81 | .700 | 17.78 | 50 <sup>†</sup>  | 15.2  | 26.4  | 12.0  | 10 |
|              |                                    |      |      |      |       | 250 <sup>†</sup> | 76.2  | 121.8 | 55.3  | 10 |
| 36190        | 1/0 (262x24)<br>[53.73 (262x.51)]  | .150 | 3.81 | .750 | 19.05 | 50 <sup>†</sup>  | 15.2  | 32.4  | 14.7  | 10 |
|              |                                    |      |      |      |       | 500 <sup>†</sup> | 152.4 | 287.5 | 130.7 | 10 |
| 36100        | 2/0 (504x26)<br>[67.85 (504x.41)]  | .150 | 3.81 | .815 | 20.70 | 50 <sup>†</sup>  | 15.2  | 37.5  | 17.0  | 10 |
|              |                                    |      |      |      |       | 250 <sup>†</sup> | 76.2  | 247.5 | 112.5 | 10 |
| 36140        | 4/0 (805x26)<br>[108.37 (805x.41)] | .150 | 3.81 | .959 | 24.36 | 50 <sup>†</sup>  | 15.2  | 52.5  | 23.8  | 10 |
|              |                                    |      |      |      |       | 250 <sup>†</sup> | 76.2  | 247.5 | 112.5 | 10 |

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

Hypalon is a DuPont trademark.



## Neoprene

### UL AWM Style 3044 300V, 90°C (CSA Type CL902)

#### Product Description

Neoprene insulation has good heat aging characteristics and is an excellent low-cost motor lead wire. It may be considered for use in hazardous locations and is being used in explosion-proof motors recognized by UL. 12 AWG and smaller sizes are dual labeled UL and CSA.

#### Recommended maximum baking cycles:

24 hours @ 300°F (149°C) • 8 hours @ 325°F (163°C)  
15 minutes @ 450°F (232°C)



Stranded tinned  
copper conductor

### UL AWM Style 3046, 3048, 3049 600V, 90°C (CSA Type CL903 available as shown)

#### Product Description

Neoprene insulation has good heat aging characteristics and is an excellent low-cost motor lead wire. It may be considered for use in hazardous locations and is being used in explosion-proof motors recognized by UL. 12 AWG and smaller sizes are dual labeled UL and CSA.

#### Recommended maximum baking cycles:

24 hours @ 300°F (149°C) • 8 hours @ 325°F (163°C)  
15 minutes @ 450°F (232°C)

#### Stranded Conductor



Stranded tinned  
copper conductor

#### Separator Over Conductor



Separator

| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 300V, 90°C (UL & CSA)

#### UL AWM Style 3044 • CSA Type CL902

|       |                               |      |     |      |      |                    |        |       |      |                      |
|-------|-------------------------------|------|-----|------|------|--------------------|--------|-------|------|----------------------|
| 31520 | 20 (10x30)<br>[.51 (10x.25)]  | .030 | .76 | .100 | 2.54 | 500 <sup>†</sup>   | 152.4  | 5.0   | 2.3  | 10                   |
|       |                               |      |     |      |      | 5000 <sup>†</sup>  | 1524.0 | 40.0  | 18.2 | 10                   |
| 31518 | 18 (16x30)<br>[.81 (16x.25)]  | .030 | .76 | .109 | 2.77 | 500 <sup>†</sup>   | 152.4  | 6.5   | 3.0  | 2, 4, 5, 6, 9, 10    |
|       |                               |      |     |      |      | 2000 <sup>†</sup>  | 609.6  | 22.0  | 10.0 | 1-6, 9, 10           |
|       |                               |      |     |      |      | 5000 <sup>†</sup>  | 1524.0 | 55.0  | 25.0 | 1-6, 9, 10, 620, B02 |
|       |                               |      |     |      |      | 10000 <sup>†</sup> | 3048.8 | 110.0 | 50.0 | 5, 9, 10             |
| 31516 | 16 (26x30)<br>[1.32 (26x.25)] | .030 | .76 | .122 | 3.10 | 500 <sup>†</sup>   | 152.4  | 9.0   | 4.1  | 2-6, 9, 10           |
|       |                               |      |     |      |      | 5000 <sup>†</sup>  | 1524.0 | 75.0  | 34.1 | 2, 4, 5, 9, 10       |

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

#### 600V, 90°C (UL)

#### UL AWM Style 3046 • CSA Type CL903

|       |                               |      |      |      |      |                   |        |       |      |                |
|-------|-------------------------------|------|------|------|------|-------------------|--------|-------|------|----------------|
| 32518 | 18 (16x30)<br>[.81 (16x.25)]  | .045 | 1.14 | .142 | 3.61 | 500 <sup>†</sup>  | 152.4  | 8.5   | 3.9  | 9, 10          |
|       |                               |      |      |      |      | 5000 <sup>†</sup> | 1524.0 | 80.0  | 36.4 | 9, 10          |
| 32516 | 16 (26x30)<br>[1.32 (26x.25)] | .045 | 1.14 | .155 | 3.94 | 500 <sup>†</sup>  | 152.4  | 11.0  | 5.0  | 2-6, 9, 10     |
|       |                               |      |      |      |      | 5000 <sup>†</sup> | 1524.0 | 105.0 | 47.7 | 2, 9, 10       |
| 31514 | 14 (41x30)<br>[2.08 (41x.25)] | .045 | 1.14 | .169 | 4.29 | 500 <sup>†</sup>  | 152.4  | 13.5  | 6.1  | 2, 4, 5, 9, 10 |
|       |                               |      |      |      |      | 4000 <sup>†</sup> | 1219.2 | 108.0 | 49.1 | 2, 4, 5, 9, 10 |
| 31512 | 12 (65x30)<br>[3.29 (65x.25)] | .045 | 1.14 | .190 | 4.83 | 250 <sup>†</sup>  | 76.2   | 10.0  | 4.5  | 10             |
|       |                               |      |      |      |      | 3000 <sup>†</sup> | 914.4  | 117.0 | 53.2 | 10             |

#### UL AWM Style 3046<sup>††</sup>

|       |                               |      |      |      |      |                   |       |       |      |    |
|-------|-------------------------------|------|------|------|------|-------------------|-------|-------|------|----|
| 31510 | 10 (65x28)<br>[5.29 (65x.32)] | .045 | 1.14 | .209 | 5.31 | 250 <sup>†</sup>  | 76.2  | 13.0  | 5.9  | 10 |
|       |                               |      |      |      |      | 2000 <sup>†</sup> | 609.6 | 106.0 | 48.2 | 10 |

#### UL AWM Style 3048<sup>††</sup>

|        |                                 |      |      |      |       |                  |       |      |      |       |
|--------|---------------------------------|------|------|------|-------|------------------|-------|------|------|-------|
| 31508* | 8 (84x27)<br>[8.60 (84x.36)]    | .060 | 1.52 | .285 | 7.24  | 500 <sup>†</sup> | 152.4 | 47.5 | 21.6 | 2, 10 |
|        |                                 |      |      |      |       |                  |       |      |      |       |
| 31506* | 6 (84x25)<br>[13.66 (84x.46)]   | .060 | 1.52 | .343 | 8.71  | 500 <sup>†</sup> | 152.4 | 68.0 | 30.9 | 10    |
|        |                                 |      |      |      |       |                  |       |      |      |       |
| 31504* | 4 (105x24)<br>[21.53 (105x.51)] | .060 | 1.52 | .399 | 10.14 | 250 <sup>†</sup> | 76.2  | 52.0 | 23.6 | 10    |
|        |                                 |      |      |      |       |                  |       |      |      |       |
| 31502* | 2 (163x24)<br>[33.43 (163x.51)] | .060 | 1.52 | .454 | 11.53 | 250 <sup>†</sup> | 76.2  | 71.0 | 32.3 | 10    |
|        |                                 |      |      |      |       |                  |       |      |      |       |

#### UL AWM Style 3049<sup>††</sup>

|        |                                   |      |      |      |       |                  |      |       |      |    |
|--------|-----------------------------------|------|------|------|-------|------------------|------|-------|------|----|
| 31501* | 1 (210x24)<br>[43.07 (210x.51)]   | .080 | 2.03 | .557 | 14.15 | 250 <sup>†</sup> | 76.2 | 98.5  | 44.8 | 10 |
|        |                                   |      |      |      |       |                  |      |       |      |    |
| 31590* | 1/0 (262x24)<br>[53.73 (262x.51)] | .080 | 2.03 | .607 | 15.42 | 250 <sup>†</sup> | 76.2 | 116.8 | 53.1 | 10 |
|        |                                   |      |      |      |       |                  |      |       |      |    |
| 31500* | 2/0 (504x26)<br>[67.85 (504x.41)] | .080 | 2.03 | .668 | 16.97 | 250 <sup>†</sup> | 76.2 | 141.5 | 64.3 | 10 |
|        |                                   |      |      |      |       |                  |      |       |      |    |

\*Separator over conductor.

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

<sup>††</sup>CSA requires additional wall thickness in sizes 10 AWG and larger to meet CL903 requirements.

## Silicone Rubber Braidless

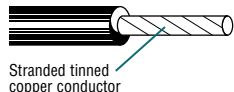
### UL AWM Style 3212, 3213, 3214 600V, 150°C (CSA Type AWM)

#### Product Description

The 333 series of braidless Silicone 150°C lead wire features easy and clean stripping without the problems associated with glass braid wire. It has excellent physical and mechanical strength properties. Braidless Silicone lead wire is also recommended for consideration in applications requiring Class 155(F) or Class 180(H) materials. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. It is recommended that varnish compatibility be checked before production. Some rigid varnishes may cause cracking when the wire is severely bent.

**Recommended maximum baking cycles:**  
24 hours @ 410°F (210°C)

#### Stranded Conductor



#### Separator Over Conductor

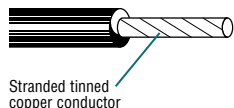


### UL AWM Style 3135 600V, 200°C

#### Product Description

The 334 Series is for use only in totally enclosed systems.

**Recommended maximum baking cycles:**  
24 hours @ 410°F (210°C)



| Part No. | AWG (stranding)<br>(sq. mm)<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 600V, 150°C (UL & CSA)

##### UL AWM Style 3212 • CSA Type AWM

|                     |                               |      |      |      |      |                  |       |      |      |                |
|---------------------|-------------------------------|------|------|------|------|------------------|-------|------|------|----------------|
| 33322               | 22 (7x30)<br>[.36 (7x.25)]    | .045 | 1.14 | .125 | 3.18 | *                | *     | *    | *    | Special Order* |
| 33320               | 20 (10x30)<br>[.51 (10x.25)]  | .045 | 1.14 | .132 | 3.53 | *                | *     | *    | *    | Special Order* |
| 33318               | 18 (16x30)<br>[.81 (16x.25)]  | .045 | 1.14 | .142 | 3.61 | 500 <sup>†</sup> | 152.4 | 7.0  | 3.2  | 9, 10          |
| 33316               | 16 (26x30)<br>[1.32 (26x.25)] | .045 | 1.14 | .155 | 3.94 | 500 <sup>†</sup> | 152.4 | 9.5  | 4.3  | 9, 10          |
| 33314               | 14 (41x30)<br>[2.08 (41x.25)] | .045 | 1.14 | .170 | 4.32 | 500 <sup>†</sup> | 152.4 | 12.0 | 5.5  | 9, 10          |
| 33312               | 12 (65x30)<br>[3.29 (65x.25)] | .045 | 1.14 | .190 | 4.83 | 500 <sup>†</sup> | 152.4 | 20.0 | 9.1  | 9, 10          |
| 33310 <sup>††</sup> | 10 (65x28)<br>[5.23 (65x.32)] | .045 | 1.14 | .209 | 5.31 | 500 <sup>†</sup> | 152.4 | 24.0 | 10.9 | 10             |

##### UL AWM Style 3213 • CSA Type AWM

|                     |                                 |      |      |      |       |                  |       |      |      |    |
|---------------------|---------------------------------|------|------|------|-------|------------------|-------|------|------|----|
| 33308 <sup>††</sup> | 8 (84x27)<br>[8.60 (84x.36)]    | .060 | 1.52 | .283 | 7.19  | 500 <sup>†</sup> | 152.4 | 40.5 | 18.4 | 10 |
| 33306 <sup>††</sup> | 6 (84x25)<br>[13.66 (84x.46)]   | .060 | 1.52 | .334 | 8.48  | 500 <sup>†</sup> | 152.4 | 68.0 | 30.9 | 10 |
| 33304 <sup>††</sup> | 4 (105x24)<br>[21.53 (105x.51)] | .060 | 1.52 | .390 | 9.91  | 250 <sup>†</sup> | 76.2  | 48.8 | 22.2 | 10 |
| 33302 <sup>††</sup> | 2 (163x24)<br>[33.43 (163x.51)] | .060 | 1.52 | .457 | 11.61 | 250 <sup>†</sup> | 76.2  | 68.8 | 31.3 | 10 |

##### UL AWM Style 3214 • CSA Type AWM

|                     |                                   |      |      |      |       |                  |      |       |      |    |
|---------------------|-----------------------------------|------|------|------|-------|------------------|------|-------|------|----|
| 33390 <sup>††</sup> | 1/0 (262x24)<br>[53.73 (262x.51)] | .080 | 2.03 | .594 | 15.09 | 250 <sup>†</sup> | 76.2 | 108.3 | 49.2 | 10 |
|---------------------|-----------------------------------|------|------|------|-------|------------------|------|-------|------|----|

\* Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1.**

<sup>†</sup> Spools may contain more than one piece. Length may vary ±10% from length shown.

<sup>††</sup> Separator over conductor.

#### 600V, 200°C (UL)

##### UL AWM Style 3135

|       |                             |      |     |      |      |   |   |   |   |                |
|-------|-----------------------------|------|-----|------|------|---|---|---|---|----------------|
| 33418 | 18 (7x26)<br>[.94 (7x.41)]  | .030 | .76 | .111 | 2.82 | * | * | * | * | Special Order* |
| 33416 | 16 (7x24)<br>[1.44 (7x.51)] | .030 | .76 | .123 | 3.12 | * | * | * | * | Special Order* |
| 33414 | 14 (7x22)<br>[2.27 (7x.64)] | .030 | .76 | .139 | 3.53 | * | * | * | * | Special Order* |

\* Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1.**

# Silicone Rubber

## Glass Braid

### UL AWM Style 3071, 3074, 3075, 3125 and 3126

**600V, 200°C**

(CSA Type SEW-2)

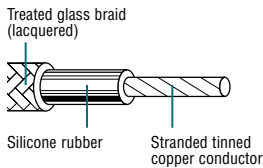
VW-1

#### Product Description

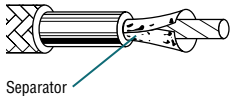
UL recognizes finer strands on the 150°C rated wire. The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. These wires can be used with Class 130(B), 155(F) or 180(H) insulation systems.

**Recommended maximum baking cycles:**  
24 hours @ 410°F (210°C)

#### Stranded Conductor



#### Separator Over Conductor



| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 600V, 200°C (UL & CSA)

##### UL AWM Style 3071 • CSA Type SEW-2

|       |                             |      |     |      |      |                   |        |       |      |       |
|-------|-----------------------------|------|-----|------|------|-------------------|--------|-------|------|-------|
| 32418 | 18 (7x26)<br>[.94 (7x.41)]  | .030 | .76 | .133 | 3.38 | 500 <sup>†</sup>  | 152.4  | 7.5   | 3.4  | 9, 10 |
|       |                             |      |     |      |      | 6000 <sup>†</sup> | 1829.3 | 78.0  | 35.5 | 9, 10 |
| 32416 | 16 (7x24)<br>[1.44 (7x.21)] | .030 | .76 | .145 | 3.68 | 500 <sup>†</sup>  | 152.4  | 9.5   | 4.3  | 9, 10 |
|       |                             |      |     |      |      | 6000 <sup>†</sup> | 1829.3 | 108.0 | 49.1 | 9, 10 |
| 32414 | 14 (7x22)<br>[2.27 (7x.64)] | .030 | .76 | .167 | 4.24 | 500 <sup>†</sup>  | 152.4  | 12.0  | 5.5  | 9, 10 |
|       |                             |      |     |      |      | 4000 <sup>†</sup> | 1219.2 | 100.0 | 45.5 | 9, 10 |

##### UL AWM Style 3074 • CSA Type SEW-2

|       |                                 |      |     |      |      |                  |       |      |     |       |
|-------|---------------------------------|------|-----|------|------|------------------|-------|------|-----|-------|
| 32412 | 12 (19x24.5)<br>[3.30 (19x.47)] | .030 | .76 | .190 | 4.83 | 500 <sup>†</sup> | 152.4 | 17.5 | 8.0 | 9, 10 |
|-------|---------------------------------|------|-----|------|------|------------------|-------|------|-----|-------|

##### UL AWM Style 3075 • CSA Type SEW-2

|       |                                 |      |      |      |      |                  |       |      |      |       |
|-------|---------------------------------|------|------|------|------|------------------|-------|------|------|-------|
| 32410 | 10 (19x22.5)<br>[5.27 (19x.59)] | .045 | 1.14 | .238 | 6.05 | 500 <sup>†</sup> | 152.4 | 28.0 | 12.7 | 9, 10 |
|-------|---------------------------------|------|------|------|------|------------------|-------|------|------|-------|

##### UL AWM Style 3125 • CSA Type SEW-2

|                    |                                 |      |      |      |       |                   |       |       |       |       |
|--------------------|---------------------------------|------|------|------|-------|-------------------|-------|-------|-------|-------|
| 30808*             | 8 (54x25)<br>[8.78 (54x.46)]    | .060 | 1.52 | .313 | 7.95  | 100 <sup>†</sup>  | 30.5  | 9.8   | 4.5   | 9, 10 |
|                    |                                 |      |      |      |       | 500 <sup>†</sup>  | 152.4 | 48.0  | 21.8  | 9, 10 |
|                    |                                 |      |      |      |       | 3000 <sup>†</sup> | 914.4 | 285.0 | 129.5 | 9, 10 |
| 30806 <sup>†</sup> | 6 (84x25)<br>[13.66 (84x.46)]   | .060 | 1.52 | .368 | 9.35  | 100 <sup>†</sup>  | 30.5  | 14.2  | 6.5   | 9, 10 |
|                    |                                 |      |      |      |       | 500 <sup>†</sup>  | 152.4 | 71.0  | 32.3  | 9, 10 |
|                    |                                 |      |      |      |       | 2000 <sup>†</sup> | 609.6 | 284.0 | 129.1 | 9, 10 |
| 30804*             | 4 (105x24)<br>[21.53 (105x.51)] | .060 | 1.52 | .424 | 10.77 | 250 <sup>†</sup>  | 76.2  | 52.3  | 23.8  | 9, 10 |
|                    |                                 |      |      |      |       | 2000 <sup>†</sup> | 609.6 | 398.0 | 180.9 | 9, 10 |
| 30802*             | 2 (163x24)<br>[33.43 (163x.51)] | .060 | 1.52 | .496 | 12.60 | 250 <sup>†</sup>  | 76.2  | 74.5  | 33.9  | 9, 10 |

##### UL AWM Style 3126 • CSA Type SEW-2

|        |                                    |      |      |      |       |                  |      |       |       |       |
|--------|------------------------------------|------|------|------|-------|------------------|------|-------|-------|-------|
| 30801* | 1 (210x24)<br>[43.07 (210x.51)]    | .080 | 2.03 | .622 | 15.80 | 100 <sup>†</sup> | 30.5 | 42.2  | 19.2  | 9, 10 |
|        |                                    |      |      |      |       | 250 <sup>†</sup> | 76.2 | 100.5 | 45.7  | 9, 10 |
| 30890* | 1/0 (262x24)<br>[53.73 (262x.51)]  | .080 | 2.03 | .670 | 17.02 | 100 <sup>†</sup> | 30.5 | 51.5  | 23.4  | 9, 10 |
|        |                                    |      |      |      |       | 250 <sup>†</sup> | 76.2 | 123.5 | 56.1  | 9, 10 |
| 30800* | 2/0 (504x26)<br>[67.85 (504x.41)]  | .080 | 2.03 | .727 | 18.47 | 50 <sup>†</sup>  | 15.2 | 31.1  | 14.1  | 9     |
|        |                                    |      |      |      |       | 100 <sup>†</sup> | 30.5 | 60.5  | 27.5  | 9     |
|        |                                    |      |      |      |       | 250 <sup>†</sup> | 76.2 | 146.0 | 66.4  | 9     |
| 30830* | 3/0 (630x26)<br>[84.81 (630x.41)]  | .080 | 2.03 | .795 | 20.19 | 250 <sup>†</sup> | 76.2 | 181.0 | 82.3  | 9     |
|        |                                    |      |      |      |       |                  |      |       |       |       |
| 30840* | 4/0 (266x21)<br>[109.51 (266x.72)] | .080 | 2.03 | .779 | 19.79 | 50 <sup>†</sup>  | 15.2 | 47.9  | 21.8  | 9     |
|        |                                    |      |      |      |       | 250 <sup>†</sup> | 76.2 | 220.8 | 100.3 | 9     |

\*Separator over conductor.

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.



## Silicone Rubber

### Glass Braid and Mercury Switch Wire

#### Glass Braid

**UL AWM Style 3069, 3070, 3101**

**600V, 150°C**

(CSA Type SEWF-2)

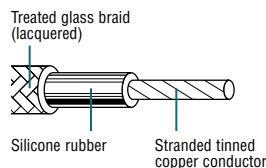
VW-1

#### Product Description

UL recognizes finer strands on the 150°C rated wire. The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. These wires can be used with Class 130(B), 155(F) or 180(H) insulation systems.

#### Recommended maximum baking cycles:

24 hours @ 410°F (210°C)



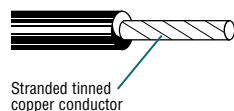
#### Mercury Switch

**UL AWM Style 3123**

**600V, 150°C**

#### Product Description

Suitable for mercury switches when protected against mechanical abuse. This wire has a tough, flexible Silicone insulation that remains flexible over a wide temperature range: +150°C to -55°C.



| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 600V, 150°C (UL & CSA)

##### UL AWM Style 3069 • CSA Type SEWF-2

|              |                              |      |     |      |      |                  |       |     |     |       |
|--------------|------------------------------|------|-----|------|------|------------------|-------|-----|-----|-------|
| <b>30820</b> | 20 (10x30)<br>[.51 (10x.25)] | .030 | .76 | .122 | 3.10 | 500 <sup>†</sup> | 152.4 | 6.0 | 2.7 | 9, 10 |
|--------------|------------------------------|------|-----|------|------|------------------|-------|-----|-----|-------|

##### UL AWM Style 3070 • CSA Type SEWF-2

|              |                              |      |     |      |      |                   |        |      |      |       |
|--------------|------------------------------|------|-----|------|------|-------------------|--------|------|------|-------|
| <b>30818</b> | 18 (16x30)<br>[.81 (16x.25)] | .030 | .76 | .132 | 3.35 | 100 <sup>†</sup>  | 30.5   | 2.0  | .9   | 9, 10 |
|              |                              |      |     |      |      | 500 <sup>†</sup>  | 152.4  | 7.0  | 3.2  | 9, 10 |
|              |                              |      |     |      |      | 6000 <sup>†</sup> | 1829.3 | 78.0 | 35.5 | 10    |

|              |                               |      |     |      |      |                  |       |     |     |       |
|--------------|-------------------------------|------|-----|------|------|------------------|-------|-----|-----|-------|
| <b>30816</b> | 16 (26x30)<br>[1.32 (26x.25)] | .030 | .76 | .145 | 3.68 | 500 <sup>†</sup> | 152.4 | 9.0 | 4.1 | 9, 10 |
|--------------|-------------------------------|------|-----|------|------|------------------|-------|-----|-----|-------|

|              |                               |      |     |      |      |                  |       |      |     |       |
|--------------|-------------------------------|------|-----|------|------|------------------|-------|------|-----|-------|
| <b>30814</b> | 14 (41x30)<br>[2.08 (41x.25)] | .030 | .76 | .164 | 4.17 | 500 <sup>†</sup> | 152.4 | 12.0 | 5.5 | 9, 10 |
|--------------|-------------------------------|------|-----|------|------|------------------|-------|------|-----|-------|

|              |                               |      |     |      |      |                   |       |       |      |       |
|--------------|-------------------------------|------|-----|------|------|-------------------|-------|-------|------|-------|
| <b>30812</b> | 12 (65x30)<br>[3.29 (65x.25)] | .030 | .76 | .186 | 4.72 | 500 <sup>†</sup>  | 152.4 | 17.0  | 7.7  | 9, 10 |
|              |                               |      |     |      |      | 3000 <sup>†</sup> | 914.4 | 102.0 | 46.4 | 10    |

##### UL AWM Style 3101 • CSA Type SEWF-2

|              |                               |      |      |      |      |                  |       |      |      |       |
|--------------|-------------------------------|------|------|------|------|------------------|-------|------|------|-------|
| <b>30810</b> | 10 (65x28)<br>[5.23 (65x.32)] | .045 | 1.14 | .239 | 6.07 | 100 <sup>†</sup> | 30.5  | 6.3  | 2.9  | 9, 10 |
|              |                               |      |      |      |      | 500 <sup>†</sup> | 152.4 | 27.0 | 12.3 | 9, 10 |

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

#### 600V, 150°C (UL)

##### UL AWM Style 3123

|              |                                |      |     |      |      |                   |       |      |     |   |
|--------------|--------------------------------|------|-----|------|------|-------------------|-------|------|-----|---|
| <b>34020</b> | 20 (105x40)<br>[.52 (105x.08)] | .030 | .76 | .110 | 2.79 | 2000 <sup>†</sup> | 609.6 | 18.0 | 8.2 | 8 |
|--------------|--------------------------------|------|-----|------|------|-------------------|-------|------|-----|---|

|              |                                 |      |     |      |      |                   |       |      |      |   |
|--------------|---------------------------------|------|-----|------|------|-------------------|-------|------|------|---|
| <b>34017</b> | 17 (210x40)<br>[1.03 (210x.08)] | .030 | .76 | .118 | 3.00 | 2000 <sup>†</sup> | 609.6 | 26.0 | 11.8 | 8 |
|--------------|---------------------------------|------|-----|------|------|-------------------|-------|------|------|---|

<sup>†</sup>Spools may contain more than one piece. Length may vary ±10% from length shown.

## High-Voltage Leads

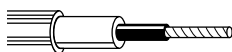
### 22 AWG Stranded Conductor (7x30)

#### Product Description

Tinned copper, conductive polyethylene (Korona-Guard) over inner conductor provides uniform distribution of voltage stresses, polyethylene insulated. PVC jacket in Red (8868) or Black (8869).

**Suggested Working Voltage:** 24,000 DC (8868)  
17,000 DC (8869)

**Breakdown Voltage:** 48,000 DC (8868)  
35,000 DC (8869)



| Part No. | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|----------------------|----|------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          | Inch                 | mm | Inch             | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 22 AWG Stranded Conductor (7x30)

| 80°C |      |      |      |     |      |      |       |         |     |     |    |
|------|------|------|------|-----|------|------|-------|---------|-----|-----|----|
| 8868 | .044 | 1.12 | .015 | .38 | .150 | 3.81 | 100   | 30.5    | 1.9 | .9  | 2  |
|      |      |      |      |     |      |      | U-500 | U-152.4 | 6.0 | 2.7 | 2  |
|      |      |      |      |     |      |      | 500   | 152.4   | 6.0 | 2.7 | 2  |
| 8869 | .027 | .69  | .015 | .38 | .120 | 3.05 | 100   | 30.5    | 2.2 | 1.0 | 10 |
|      |      |      |      |     |      |      | 500   | 152.4   | 4.5 | 2.0 | 10 |

### 20 AWG Stranded Conductor (7x28)

UL AWM Style 3239 (80°C)

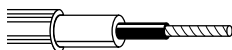
VW-1

#### Product Description

Tinned copper, conductive polyethylene (Korona-Guard) over inner conductor provides uniform distribution of voltage stresses, polyethylene insulated. Red PVC jacket.

**Suggested Working Voltage:** 30,000 DC

**Breakdown Voltage:** 60,000 DC



#### 20 AWG Stranded Conductor (7x28)

| UL AWM Style 3239 • 80°C |      |      |      |     |      |      |     |       |      |     |   |
|--------------------------|------|------|------|-----|------|------|-----|-------|------|-----|---|
| 9867                     | .046 | 1.17 | .028 | .71 | .191 | 4.85 | 100 | 30.5  | 2.8  | 1.3 | 2 |
|                          |      |      |      |     |      |      | 500 | 152.4 | 10.5 | 4.8 | 2 |

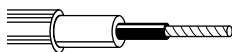
### 18 AWG Stranded Conductor (16x30)

#### Product Description

Tinned copper, conductive polyethylene (Korona-Guard) over inner conductor provides uniform distribution of voltage stresses, polyethylene insulated. Red PVC jacket.

**Suggested Working Voltage:** 40,000 DC

**Breakdown Voltage:** 80,000 DC



#### 18 AWG Stranded Conductor (16x30)

| 80°C |      |      |      |     |      |      |       |         |      |     |   |
|------|------|------|------|-----|------|------|-------|---------|------|-----|---|
| 8866 | .057 | 1.45 | .015 | .38 | .208 | 5.28 | 100   | 30.5    | 3.0  | 1.4 | 2 |
|      |      |      |      |     |      |      | U-500 | U-152.4 | 11.5 | 5.2 | 2 |
|      |      |      |      |     |      |      | 500   | 152.4   | 11.5 | 5.2 | 2 |



## Test Prod Wire

### 18 AWG Rubber Insulated 5000V, 90°C

#### Product Description

Tinned copper, rubber insulated.

**Suggested Working Voltage:** 5000V

**Breakdown Voltage:** 20,000V



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors<br>(See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|------------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                      |

#### 18 AWG Rubber Insulated

##### 5000V, 90°C

|      |            |      |      |      |      |        |         |      |     |                      |
|------|------------|------|------|------|------|--------|---------|------|-----|----------------------|
| 8899 | 18 (65x36) | .045 | 1.14 | .144 | 3.66 | 10     | 3.0     | .2   | .1  | 2, 10                |
|      |            |      |      |      |      | 14     | 4.3     | .5   | .2  | 2, 10                |
|      |            |      |      |      |      | 25     | 7.6     | .6   | .3  | 2, 4, 5, 6, 8, 9, 10 |
|      |            |      |      |      |      | 100    | 30.5    | 2.3  | 1.0 | 2, 4, 5, 6, 8, 9, 10 |
|      |            |      |      |      |      | U-500  | U-152.4 | 8.0  | 3.6 | 2, 10                |
|      |            |      |      |      |      | 500    | 152.4   | 8.5  | 3.9 | 2, 4, 5, 6, 8, 9, 10 |
|      |            |      |      |      |      | U-1000 | U-304.8 | 16.0 | 7.3 | 2, 10                |
|      |            |      |      |      |      | 1000   | 304.8   | 17.0 | 7.7 | 2, 10                |

### 18 AWG PVC Insulated UL AWM Style 1855 (5000V, 80°C)

#### Product Description

Tinned copper, PVC insulated. Use test probe leads for electrical and electronic measuring for test equipment.

**Suggested Working Voltage:** 5000V



#### 18 AWG PVC Insulated (UL)

##### UL AWM Style 1855 • 5000V, 80°C

|      |            |      |      |      |      |      |       |      |     |             |
|------|------------|------|------|------|------|------|-------|------|-----|-------------|
| 9899 | 18 (65x36) | .048 | 1.22 | .144 | 3.66 | 100  | 30.5  | 2.2  | 1.0 | 2, 10       |
|      |            |      |      |      |      | 500  | 152.4 | 7.5  | 3.4 | 2, 5, 9, 10 |
|      |            |      |      |      |      | 1000 | 304.8 | 15.0 | 6.8 | 2, 10       |

### 18 AWG Rubber Insulated 5000V, 80°C

#### Product Description

Tinned copper, separator, rubber insulated. Manufactured for MIL-W-13169B.

**Suggested Working Voltage:** 5000V

**Breakdown Voltage:** 20,000V



#### 18 AWG Rubber Insulated

##### 5000V, 80°C

|      |            |      |      |      |      |       |         |     |     |       |
|------|------------|------|------|------|------|-------|---------|-----|-----|-------|
| 8897 | 18 (65x36) | .045 | 1.14 | .144 | 3.66 | U-500 | U-152.4 | 8.5 | 3.9 | 2, 10 |
|      |            |      |      |      |      | 500   | 152.4   | 8.5 | 3.9 | 2, 10 |

## Test Prod Wire and Gas Tube Sign and Ignition Cable

### 18 AWG Rubber Insulated 10,000V, 90°C

#### Product Description

Tinned copper, rubber insulated.

**Suggested Working Voltage:** 10,000V

**Breakdown Voltage:** 29,000V



| Part No. | AWG (stranding) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|-----------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                 | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

#### 18 AWG Rubber Insulated

##### 10,000V, 90°C

|      |            |      |      |      |      |     |       |      |     |       |
|------|------------|------|------|------|------|-----|-------|------|-----|-------|
| 8898 | 18 (65x36) | .088 | 2.24 | .229 | 5.82 | 25  | 7.6   | 1.7  | .8  | 2, 10 |
|      |            |      |      |      |      | 100 | 30.5  | 4.4  | 2.0 | 2, 10 |
|      |            |      |      |      |      | 500 | 152.4 | 20.0 | 9.1 | 2, 10 |

### 24 AWG Rubber Insulated 1000V, 90°C • Miniature

#### Product Description

Tinned copper, separator, rubber insulated.

**Suggested Working Voltage:** 1000V

**Breakdown Voltage:** 10,000V



#### 24 AWG Rubber Insulated

##### 1000V, 90°C • Miniature

|      |            |      |     |      |      |     |       |     |      |       |
|------|------------|------|-----|------|------|-----|-------|-----|------|-------|
| 8890 | 24 (45x40) | .019 | .48 | .066 | 1.68 | 25  | 7.6   | .1  | .05  | 2, 10 |
|      |            |      |     |      |      | 100 | 30.5  | .4  | .20  | 2, 10 |
|      |            |      |     |      |      | 500 | 152.4 | 2.5 | 1.10 | 2, 10 |

### Gas Tube Sign and Ignition UL GTO-10 — 10kV, 105°C (CSA Type GTO-10 — 10kV)

#### Product Description

GTO cables are single conductors for use with gas-tube systems for signs, outline lighting or interior lights and for use with oil-burning equipment in accordance with the National Electrical Code. GTO-10 lead wire has an 18 AWG stranded tinned copper conductor and is insulated with a chemically cross-linked ethylene-propylene diene elastomer. Unshielded, it is available with either a flat black (color code 10) or dark gray (color code 876) exterior.



Stranded tinned copper conductor

| Part No. | AWG (stranding)<br>[sq. mm]<br>(stranding in mm) | Insulation Thickness |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    | Stock Colors (See Color Codes Chart on Page 3.29) |
|----------|--------------------------------------------------|----------------------|----|------------|----|------------------|---|----------------------|----|---------------------------------------------------|
|          |                                                  | Inch                 | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |                                                   |

#### 10kV, 105°C (UL) • 10kV (CSA)

##### UL and CSA Type GTO-10

|       |                              |      |      |      |      |       |       |      |      |         |
|-------|------------------------------|------|------|------|------|-------|-------|------|------|---------|
| 39018 | 18 (19x30)<br>[.96 (19x.25)] | .100 | 2.54 | .247 | 6.27 | 500*  | 152.4 | 18.0 | 8.2  | 10, 876 |
|       |                              |      |      |      |      | 1000* | 304.8 | 37.0 | 16.8 | 10, 876 |
|       |                              |      |      |      |      | 1500* | 457.3 | 54.0 | 24.5 | 10, 876 |

\*Spools may contain more than one piece. Length may vary ±10% from length shown.



By:



INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## Magnet Wire

### Heavy-Armored Poly-thermaleze® One Pound Spool

#### Product Description

Belden® high-temperature, heavy-armored Poly-thermaleze is a dual coated magnet wire. Its base coat is a cross-linked, modified polyester. Its top coat is an amide-imide polymer. Rated for 180°C usage, Belden heavy-armored Poly-thermaleze has exceptional ability to resist solvents and abuse in difficult windings.



### Single Beldsol™ Solderable Half Pound Spool

#### Product Description

Beldsol Magnet Wire is a dual insulated Magnet Wire that combines the excellent dielectric characteristics of polyurethane and the known toughness and solvent resistance of a nylon overcoat. This wire is rated by IEEE tests for 270°F usage and will solder without insulation removal at 750°F.



| Part No. | AWG | Approximate Length |   | Standard Unit Weight |    | Turns per Linear Inch | Turns per Square Inch |
|----------|-----|--------------------|---|----------------------|----|-----------------------|-----------------------|
|          |     | Ft.                | m | Lbs.                 | kg |                       |                       |

#### Heavy-Armored Poly-thermaleze

| J-W-1177/14 • MW 35-C (Heavy) |    |       |        |     |    |       |       |
|-------------------------------|----|-------|--------|-----|----|-------|-------|
| 8073                          | 14 | 80    | 24.4   | 1.1 | .5 | 14.9  | 222   |
| 8074                          | 16 | 126   | 38.4   | 1.1 | .5 | 18.6  | 346   |
| 8075                          | 18 | 199   | 60.7   | 1.1 | .5 | 23.2  | 538   |
| 8076                          | 20 | 315   | 96.0   | 1.1 | .5 | 28.9  | 835   |
| 8077                          | 22 | 501   | 152.7  | 1.1 | .5 | 36.0  | 1296  |
| 8078                          | 24 | 793   | 241.7  | 1.1 | .5 | 44.7  | 1998  |
| 8079                          | 26 | 1260  | 384.1  | 1.1 | .5 | 55.7  | 3102  |
| 8080                          | 28 | 1990  | 606.6  | 1.1 | .5 | 69.4  | 4816  |
| 8081                          | 30 | 3140  | 957.1  | 1.1 | .5 | 86.2  | 7430  |
| 8083                          | 34 | 7860  | 2395.8 | 1.1 | .5 | 133.1 | 17716 |
| 8085                          | 38 | 19300 | 5882.7 | 1.1 | .5 | 206.0 | 42436 |

#### Single Beldsol Solderable

| J-W-1177/9 • MW 28-C (Single) |    |      |        |    |    |       |       |
|-------------------------------|----|------|--------|----|----|-------|-------|
| 8049                          | 18 | 100  | 30.5   | .5 | .2 | 23.9  | 571   |
| 8050                          | 20 | 160  | 48.8   | .5 | .2 | 29.9  | 894   |
| 8051                          | 22 | 254  | 77.4   | .5 | .2 | 37.5  | 1406  |
| 8052                          | 24 | 404  | 123.1  | .5 | .2 | 46.9  | 2200  |
| 8053                          | 26 | 645  | 196.6  | .5 | .2 | 59.0  | 3481  |
| 8054                          | 28 | 1020 | 310.9  | .5 | .2 | 73.8  | 5446  |
| 8055                          | 30 | 1615 | 492.3  | .5 | .2 | 91.7  | 8409  |
| 8056                          | 32 | 2515 | 766.6  | .5 | .2 | 114.0 | 12996 |
| 8057                          | 34 | 4060 | 1237.5 | .5 | .2 | 144.0 | 20736 |
| 8058                          | 36 | 6400 | 1950.7 | .5 | .2 | 180.0 | 32400 |

Poly-thermaleze is a Phelps Dodge trademark.



## Shielding and Bonding Cable and Direct Burial Cable

### Roadway Loop Cables

#### Braided Wire



| Part No.     | Approx. AWG (stranding) | Standard Lengths |      | Standard Unit Weight |      | Recommended Current (Amps) | Approximate Circular Area |                 | Nominal ID Tubular |       |
|--------------|-------------------------|------------------|------|----------------------|------|----------------------------|---------------------------|-----------------|--------------------|-------|
|              |                         | Ft.              | m    | Lbs.                 | kg   |                            | CMA                       | mm <sup>2</sup> | Inch               | mm    |
| Braided Wire |                         |                  |      |                      |      |                            |                           |                 |                    |       |
| 8660         | 14.3 (96x34) tinned     | 50               | 15.2 | .7                   | .3   | 27.0                       | 3800                      | 1.92            | .125               | 3.18  |
|              |                         | 250              | 76.2 | 3.8                  | 1.7  |                            |                           |                 |                    |       |
| 8668         | 13.3 (120x34) tinned    | 50               | 15.2 | 1.1                  | .5   | 36.0                       | 4800                      | 2.43            | .172               | 4.37  |
|              |                         | 250              | 76.2 | 5.5                  | 2.5  |                            |                           |                 |                    |       |
| 8663         | 11.9 (168x34) tinned    | 50               | 15.2 | 2.1                  | .9   | 38.0                       | 6700                      | 3.40            | .219               | 5.56  |
|              |                         | 250              | 76.2 | 7.5                  | 3.4  |                            |                           |                 |                    |       |
| 8661         | 11.3 (192x34) tinned    | 50               | 15.2 | 2.2                  | 1.0  | 46.0                       | 7600                      | 3.85            | .203               | 5.16  |
|              |                         | 250              | 76.2 | 8.0                  | 3.6  |                            |                           |                 |                    |       |
| 8669         | 8.9 (336x34) tinned     | 50               | 15.2 | 3.4                  | 1.5  | 62.0                       | 13300                     | 6.74            | .500               | 12.70 |
|              |                         | 250              | 76.2 | 13.5                 | 6.1  |                            |                           |                 |                    |       |
| 8662         | 6.6 (576x34) tinned     | 50               | 15.2 | 4.7                  | 2.1  | 80.0                       | 22900                     | 11.60           | .781               | 19.84 |
|              |                         | 250              | 76.2 | 20.0                 | 9.1  |                            |                           |                 |                    |       |
| 8670         | 3.4 (480x30) tinned     | 10               | 3.0  | 1.9                  | .9   | 145.0                      | 48000                     | 24.32           | .750 (Flat Width)  | 19.05 |
|              |                         | 50               | 15.2 | 9.7                  | 4.4  |                            |                           |                 |                    |       |
|              |                         | 250              | 76.2 | 43.0                 | 19.5 |                            |                           |                 |                    |       |

Note: Dimensions shown are approximate, due to pliable nature of braided cables.

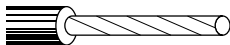
#### Direct Burial

#### 14 AWG Stranded Conductor (104x34)

#### Product Description

Tinned copper conductor. Black high-density polyethylene insulation.

Suggested Working Voltage: 600V



| Part No.                           | Insulation Thickness |     | Jacket Thickness |    | Nominal OD |      | Standard Lengths |       | Standard Unit Weight |      | Stock Colors |  |
|------------------------------------|----------------------|-----|------------------|----|------------|------|------------------|-------|----------------------|------|--------------|--|
|                                    | Inch                 | mm  | Inch             | mm | Inch       | mm   | Ft.              | m     | Lbs.                 | kg   |              |  |
| 14 AWG Stranded Conductor (104x34) |                      |     |                  |    |            |      |                  |       |                      |      |              |  |
| 80°C                               |                      |     |                  |    |            |      |                  |       |                      |      |              |  |
| 9438                               | .032                 | .81 | —                | —  | .139       | 3.53 | 1000             | 304.8 | 22.0                 | 10.0 | Black        |  |



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1-800-527-0010

## Bus Bar, Antenna and Aluminum Ground Wire

### Bus Bar Wire

#### Product Description

Made in accordance with the performance requirements of Federal Spec. QQ-W-343G. Solid tinned copper. Belden® can certify upon special request compliance to the performance requirements of QQ-W-343S\_S1T.



| Part No.     | AWG | Standard Lengths |       | Standard Unit Weight |      | Nominal OD |      | Circular Area |                 |
|--------------|-----|------------------|-------|----------------------|------|------------|------|---------------|-----------------|
|              |     | Ft.              | m     | Lbs.                 | kg   | Inch       | mm   | CMA           | mm <sup>2</sup> |
| Bus Bar Wire |     |                  |       |                      |      |            |      |               |                 |
| 8025         | 30  | 100              | 30.5  | .1                   | .05  | .010       | .26  | 102           | .05             |
|              |     | 1000             | 304.8 | 1.0                  | .50  |            |      |               |                 |
| 8024         | 28  | 100              | 30.5  | .1                   | .05  | .013       | .33  | 164           | .08             |
|              |     | 1000             | 304.8 | 1.0                  | .50  |            |      |               |                 |
| 8023         | 26  | 100              | 30.5  | .1                   | .05  | .016       | .41  | 262           | .13             |
|              |     | 1000             | 304.8 | 1.0                  | .50  |            |      |               |                 |
| 8022         | 24  | 100              | 30.5  | .2                   | .10  | .021       | .52  | 424           | .22             |
|              |     | 1000             | 304.8 | 1.0                  | .50  |            |      |               |                 |
| 8021         | 22  | 100              | 30.5  | .2                   | .10  | .026       | .65  | 650           | .33             |
|              |     | 1000             | 304.8 | 2.0                  | .90  |            |      |               |                 |
| 8020         | 20  | 100              | 30.5  | .4                   | .20  | .033       | .83  | 1056          | .54             |
|              |     | 1000             | 304.8 | 3.0                  | 1.40 |            |      |               |                 |
| 8019         | 18  | 100              | 30.5  | .5                   | .20  | .041       | 1.03 | 1648          | .84             |
|              |     | 1000             | 304.8 | 6.0                  | 2.70 |            |      |               |                 |
| 8013         | 16  | 100              | 30.5  | .8                   | .40  | .052       | 1.31 | 2673          | 1.35            |
|              |     | 1000             | 304.8 | 9.0                  | 4.10 |            |      |               |                 |
| 8012         | 14  | 100              | 30.5  | 1.5                  | .70  | .065       | 1.66 | 4251          | 2.15            |
|              |     | 1000             | 304.8 | 14.0                 | 6.40 |            |      |               |                 |
| 8011         | 12  | 100              | 30.5  | 2.3                  | 1.00 | .083       | 2.11 | 6872          | 3.48            |

### Antenna Wire

#### Product Description

Stranded bare copper-covered steel.



| Part No.     | AWG          | Standard Package Lengths |       | Standard Unit Weight |     | Nominal OD |      |
|--------------|--------------|--------------------------|-------|----------------------|-----|------------|------|
|              |              | Ft.                      | m     | Lbs.                 | kg  | Inch       | mm   |
| Antenna Wire |              |                          |       |                      |     |            |      |
| 8002         | 16<br>(7x24) | 100                      | 30.5  | .8                   | .4  | .060       | 1.52 |
| 8000         | 14<br>(7x22) | 100                      | 30.5  | 1.3                  | .6  | .076       | 1.93 |
|              |              | 1000                     | 304.8 | 13.3                 | 6.1 |            |      |

### Aluminum Ground Wire

|      |              |     |       |     |     |      |      |
|------|--------------|-----|-------|-----|-----|------|------|
| 8018 | 8<br>(solid) | 50  | 15.2  | .9  | .4  | .128 | 3.25 |
|      |              | 500 | 152.4 | 8.5 | 3.9 |      |      |

### Aluminum Ground Wire

#### Product Description

8 AWG solid, soft annealed aluminum. Packaged in ten 50-foot connected coils or spools of 500 feet. Spools are marked every 100 feet for easy measuring.



## Technical Information

### Conductor and Insulation Materials

The technical information provided in this section has been expanded to include additional graphs and supplementary data as an aid in specifying the hook-up and lead wire best suited to the needs of a particular application. If you require additional technical information, contact Belden Technical Support at **1-800-BELDEN-1**.

The tables on the following pages are offered as a guide to assist users in selecting the correct lead wire for their application.

#### Conductors

##### Uni-Strand®

*Uni-Strand tinned copper conductor.* In this type of construction, the bare copper wires are stranded, then tinned to coat the strands and also to fill in the interstices between strands. This allows for easier wire stripping with no re-twisting operation.

#### Insulation Materials

##### PVC

Vinyl plastic insulation is fast stripping, resists oil, solvents, and ozone. The colors are bright and remain distinct after processing. Applications include motors, transformers, fluorescent ballasts and fixtures, switchboards, panels, controls, rectifiers and electronic circuits. Meets VW-1 Vertical Wire Flame Test in many cases.

##### Teflon®

Teflon is a fluorinated thermoplastic with outstanding thermal, physical, and electrical properties. Teflon is generally restricted to applications requiring its special characteristics because its basic resin and processing costs are relatively high.

Belden Teflon wire products are highly recommended for miniature cable applications because of their superior thermal and electrical properties. Teflon is especially suitable for internal wiring-soldering applications where insulation melt back is a specific problem. Belden wiring products insulated with Teflon are outstanding in their resistance to oil, oxidation, heat, sunlight and flame; and also in their ability to remain flexible at low temperatures. They have excellent resistance to ozone, water, alcohol, gasoline, acids, alkalis, aromatic hydrocarbons and solvents.

##### EPDM

EPDM (ethylene-propylene diene elastomer) is a chemically cross-linked elastomer with excellent flexibility at high and low temperatures (+150°C to -60°C). It has good insulation and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM also has better cut-through resistance than Silicone rubber, which it replaces in some applications.

EPDM is compatible with most varnishes. After the dip and bake cycle, however, the varnish tends to adhere to the insulation because EPDM, unlike some rubber insulations, does not exude oils or waxes. As the lead wires are pulled apart for termination or flexed, the varnish cracks, sometimes tearing the insulation.

To help this problem, a stearic solution is applied to the lead wire during the manufacturing process. However, many varnishes may still bond to the insulation unless other special coatings are applied. (Other slip coats are available at additional cost.) **Because most cleaning processes will remove these coatings from the EPDM lead wire, cleaning EPDM lead wire before using in the process is not recommended.**

***Due to the above, it is recommended that the compatibility between the individual lead wire size, the bake/varnish process and varnish used always be checked; and if possible, do not allow any varnish to extend beyond a point where the lead wire will be flexed or bent.***

##### XL-Dur®

XL-Dur is a lead wire insulation utilizing thermoset, chemically cross-linked polyethylene. Because of its excellent physical and electrical properties, XL-Dur is highly desirable for a wide variety of applications.

##### Hypalon®

This insulation is chlorosulfonated polyethylene. Hypalon insulation has excellent heat resistance, color stability and electrical properties.

##### Neoprene

Neoprene insulation has good heat aging characteristics and is an excellent low-cost motor lead wire. It may be considered for use in hazardous locations and is being used in explosion-proof motors recognized by UL.

##### Silicone Rubber

Braidless Silicone lead wire features easy and clean stripping without the problems associated with glass braid lead wire. It has excellent physical and mechanical strength properties.

Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic, and electronic devices. It is recommended that varnish compatibility be checked before production. Some rigid varnishes may cause cracking when the wire is severely bent.

##### Silicone Rubber — Glass Braid

The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying.

Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices.

Hypalon and Teflon are DuPont trademarks.



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## Technical Information

### Insulation Characteristics and Color Codes

**Table 1: Insulation Characteristics**

| Insulation                  | Temperature Rating | UL Voltage Rating (Volts) | Oil Resistance | Ozone Resistance | Abrasion  | Flame Resistance |
|-----------------------------|--------------------|---------------------------|----------------|------------------|-----------|------------------|
| Neoprene                    | 90°C               | 300/600                   | Good           | Good             | Good      | Good             |
| PVC                         | 80°C               | 300                       | Good-Excellent | Good-Excellent   | Good      | Excellent        |
|                             | 105°C              | 600                       | Good-Excellent | Good-Excellent   | Good      | Excellent        |
| Hypalon®                    | 105°C              | 300/600                   | Good           | Excellent        | Good      | Good             |
| XL-Dur®                     | 105°C              | 300                       | Good           | Good             | Excellent | Fair-Good        |
| Cross-Linked Polyethylene   | 125°C              | 600                       | Good           | Good             | Excellent | Fair-Good        |
|                             | 150°C              | 600                       | Good           | Good             | Excellent | Fair-Good        |
| EPDM                        | 125°C              | 600                       | Fair-Poor      | Good             | Good      | Fair             |
|                             | 150°C              | 600                       | Fair-Poor      | Good             | Good      | Fair             |
| Silicone Rubber             | 150°C              | 300                       | Fair           | Good             | Poor      | Good             |
|                             | 200°C              | 600                       | Fair           | Good             | Poor      | Good             |
| Silicone Rubber Glass Braid | 150°C              | 600                       | Fair           | Excellent        | Excellent | Good             |
|                             | 200°C              | 600                       | Fair           | Excellent        | Excellent | Good             |
| Teflon®                     | 150°C              | 300                       | Excellent      | Excellent        | Excellent | Excellent        |
|                             | 200°C              | 300                       | Excellent      | Excellent        | Excellent | Excellent        |
|                             | 260°C              | 300                       | Excellent      | Excellent        | Excellent | Excellent        |

**Table 2: Lead Wire Color Code Chart**

| Color No. | Color Combination | Color No. | Color Combination | Color No. | Color Combination     |
|-----------|-------------------|-----------|-------------------|-----------|-----------------------|
| 1         | Brown             | 13        | Dark Blue         | 25        | White/Black/Yellow    |
| 2         | Red               | 14        | White/Black       | 26        | White/Black/Blue      |
| 3         | Orange            | 15        | White/Red         | 27        | White/Black/Brown     |
| 4         | Yellow            | 16        | White/Green       | 28        | White/Black/Orange    |
| 5         | Green             | 17        | White/Yellow      | 29        | White/Black/Gray      |
| 6         | Light Blue        | 18        | White/Blue        | 30        | White/Black/Violet    |
| 7         | Violet            | 19        | White/Brown       | 189       | Green/Yellow          |
| 8         | Gray (Slate)      | 20        | White/Orange      | 620       | Green/min. 30% Yellow |
| 9         | White             | 21        | White/Gray        | 876       | Nickel Gray           |
| 10        | Black             | 22        | White/Violet      | 802       | Purple                |
| 11        | Tan               | 23        | White/Black/Red   |           |                       |
| 12        | Pink              | 24        | White/Black/Green |           |                       |

**Non-Stock Colors:** Non-stock colors and stripes of catalog items are available in minimum quantities. Price and delivery information is available upon request. Orders must be in multiples of standard packages.

Hypalon and Teflon are DuPont trademarks.

## Technical Information

### Current Carrying Capacity

**Table 3: Lead Wire Current Carrying Capacity**

| AWG | 90°C<br>Neoprene,<br>SIS | 105°C<br>Vinyl,<br>Hypalon® | 125°C<br>XL-Dur®<br>Hermetic | 150°C<br>EPDM,<br>XL-Dur,<br>Silicone | 200°C<br>Silicone |
|-----|--------------------------|-----------------------------|------------------------------|---------------------------------------|-------------------|
| 22  | 10                       | 11                          | 12                           | 14                                    | 16                |
| 20  | 13                       | 14                          | 15                           | 18                                    | 21                |
| 18  | 18                       | 20                          | 22                           | 24                                    | 28                |
| 16  | 24                       | 26                          | 28                           | 31                                    | 35                |
| 14  | 35                       | 39                          | 42                           | 46                                    | 54                |
| 12  | 40                       | 51                          | 55                           | 60                                    | 68                |
| 10  | 55                       | 67                          | 72                           | 80                                    | 90                |
| 8   | 80                       | 90                          | 97                           | 106                                   | 124               |
| 6   | 105                      | 121                         | 131                          | 155                                   | 165               |
| 4   | 140                      | 160                         | 172                          | 109                                   | 220               |
| 3   | 165                      | 180                         | 194                          | 214                                   | 252               |
| 2   | 190                      | 215                         | 232                          | 255                                   | 293               |
| 1   | 220                      | 247                         | 266                          | 293                                   | 344               |
| 1/0 | 260                      | 286                         | 309                          | 339                                   | 399               |
| 2/0 | 300                      | 329                         | 355                          | 390                                   | 467               |
| 3/0 | 350                      | 380                         | 410                          | 451                                   | 546               |
| 4/0 | 405                      | 446                         | 481                          | 529                                   | 629               |

Values (amperes) shown in this table are maximum for a single conductor in free air with an assumed ambient room temperature of 30°C (86°F).

**Table 4: Current Carrying Capacity of 2 or 3 Conductors**

| AWG | 90°C<br>Neoprene,<br>SIS | 105°C<br>Vinyl,<br>Hypalon | 125°C<br>XL-Dur,<br>Hermetic | 150°C<br>EPDM,<br>XL-Dur,<br>Silicone | 200°C<br>Silicone |
|-----|--------------------------|----------------------------|------------------------------|---------------------------------------|-------------------|
| 22  | 6                        | 7                          | 8                            | 9                                     | 10                |
| 20  | 8                        | 9                          | 10                           | 13                                    | 15                |
| 18  | 14                       | 15                         | 16                           | 17                                    | 20                |
| 16  | 18                       | 19                         | 20                           | 22                                    | 25                |
| 14  | 25                       | 29                         | 31                           | 34                                    | 36                |
| 12  | 30                       | 36                         | 39                           | 43                                    | 45                |
| 10  | 40                       | 46                         | 50                           | 55                                    | 60                |
| 8   | 55                       | 64                         | 69                           | 76                                    | 83                |
| 6   | 75                       | 81                         | 87                           | 96                                    | 110               |
| 4   | 95                       | 109                        | 118                          | 120                                   | 125               |
| 3   | 110                      | 129                        | 139                          | 143                                   | 152               |
| 2   | 130                      | 143                        | 154                          | 160                                   | 171               |
| 1   | 150                      | 168                        | 181                          | 186                                   | 197               |
| 1/0 | 170                      | 193                        | 208                          | 215                                   | 229               |
| 2/0 | 195                      | 229                        | 247                          | 251                                   | 260               |
| 3/0 | 225                      | 263                        | 284                          | 288                                   | 297               |
| 4/0 | 260                      | 301                        | 325                          | 332                                   | 346               |

Current carrying capacity of not more than three (3) conductors in a raceway, conduit or cable. The values (amperes) shown in this table are maximum at an assumed ambient room temperature of 30°C (86°F).

Hypalon is a trademark of DuPont.

### How to Use

The choice of an appropriate conductor, with respect to current carrying capacity, usually depends on one or more factors which vary according to application. These factors include the temperature in which the lead wire operates, temperature rise of equipment, limitations of insulation, voltage drop, and location of wires as in free air or enclosed, such as formed by a compartment, tubing, or a bundle of wires.

For these reasons it is not practical to provide a general chart showing the current carrying capacity of Lead Wire for all conditions. Accordingly, the values shown in Table 3 are MAXIMUM for a single conductor in free air, based on ambient temperature of 30°C. For actual use temperatures above an ambient temperature of 30°C, reduce the maximum ampacity by use of correction factor in Table 5 to correct the values in Table 3 and Table 4.

**Table 5: Correction Factors for Tables 3 & 4**

| Ambient<br>Temperature<br>(°C) | Insulation Temperature Rating |       |       |       |       |
|--------------------------------|-------------------------------|-------|-------|-------|-------|
|                                | 90°C                          | 105°C | 125°C | 150°C | 200°C |
| 31 – 35                        | .96                           | 1.00  | 1.00  | 1.00  | 1.00  |
| 36 – 40                        | .91                           | 1.00  | 1.00  | 1.00  | 1.00  |
| 41 – 45                        | .87                           | .93   | .94   | .95   | .97   |
| 46 – 50                        | .82                           | .93   | .94   | .95   | .97   |
| 51 – 55                        | .76                           | .85   | .87   | .90   | .94   |
| 56 – 60                        | .71                           | .85   | .87   | .90   | .94   |
| 61 – 70                        | .58                           | .76   | .80   | .85   | .90   |
| 71 – 80                        | .41                           | .65   | .73   | .80   | .87   |
| 81 – 90                        | —                             | .53   | .64   | .74   | .83   |
| 91 – 100                       | —                             | .38   | .54   | .67   | .79   |
| 101 – 120                      | —                             | —     | .24   | .52   | .71   |
| 121 – 140                      | —                             | —     | —     | .30   | .61   |
| 141 – 160                      | —                             | —     | —     | —     | .50   |
| 161 – 180                      | —                             | —     | —     | —     | .35   |

For ambient temperatures over 30°C, multiply the ampacities shown in Table 3 or Table 4 by the appropriate correction factor to determine the maximum allowable load current.

**Correction Factors for Table 4**

| Number<br>of<br>Conductors | Reduction<br>Percentage |
|----------------------------|-------------------------|
| 4 thru 6                   | 80%                     |
| 7 thru 9                   | 70%                     |
| 10 thru 20                 | 50%                     |
| 21 thru 30                 | 45%                     |
| 31 thru 40                 | 40%                     |
| 41 and above               | 35%                     |

If more than three (3) conductors are in a raceway, conduit or cable; the values given in Table 4 must be reduced using the above percentages.

(Example: The ampacity for 7 through 9 conductors = 70% of the value(s) shown in Table 4.)



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## Technical Information

### Temperature Ranges and Classifications Conductor Configurations

**Table 6: Nominal Temperature Operating Ranges (°C)**

| -100° | -80°    | -60° | -40°               | -20°                      | 0        | 20° | 40° | 60°   | 80°   | 100°  | 120° | 140° | 160° | 180° | 200° | 220° | 240°  |
|-------|---------|------|--------------------|---------------------------|----------|-----|-----|-------|-------|-------|------|------|------|------|------|------|-------|
|       |         |      |                    | -30°                      | Neoprene |     |     |       |       | 90°C  |      |      |      |      |      |      |       |
|       |         |      |                    | -30°                      | Hypalon® |     |     |       |       | 105°C |      |      |      |      |      |      |       |
|       |         |      | -60°               | EPDM                      |          |     |     |       | 150°C |       |      |      |      |      |      |      |       |
|       |         | -75° | Silicone Braidless |                           |          |     |     | 200°C |       |       |      |      |      |      |      |      |       |
|       |         | -75° | Silicone Braided   |                           |          |     |     | 200°C |       |       |      |      |      |      |      |      |       |
|       |         |      | -55°               | Cross-Linked Polyethylene |          |     |     |       | 150°C |       |      |      |      |      |      |      |       |
|       |         |      |                    | -33°                      | PVC      |     |     |       |       | 105°C |      |      |      |      |      |      |       |
| -100° | Teflon® |      |                    |                           |          |     |     |       |       |       |      |      |      |      |      |      | 260°C |

**Table 7: Temperature Classification**

| Insulation System Class | Minimum Acceptable Lead Wire Temperature Rating |     |
|-------------------------|-------------------------------------------------|-----|
|                         | C°                                              | F°  |
| <b>130(B)</b>           | 90                                              | 194 |
| <b>155(F)</b>           | 125                                             | 257 |
| <b>180(H)</b>           | 150                                             | 302 |
| <b>220(R)</b>           | 200                                             | 392 |

Systems of Insulating Materials — UL Standard 1446

This is a guide intended for UL approved insulation systems connected to branch circuits of 600V or less. Approval required by Underwriters Laboratories when using lead wire with a temperature rating more than 5°C under the system temperature rating.

**Table 8: Conductor Configurations**

| Typical Application                                                | American Wire Gage            |                               |                               |                                    |                                          |                            |                      |                     |
|--------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------|------------------------------------------|----------------------------|----------------------|---------------------|
|                                                                    | 12                            | 14                            | 16                            | 18                                 | 20                                       | 22                         | 24                   | 26                  |
| <b>Fixed Services</b><br>Hook-Up Wire<br>Cable in Raceway          | 19x25                         | solid<br>or<br>19x27          | solid<br>or<br>19x29          | solid<br>or<br>7x26<br>or<br>16x30 | solid<br>or<br>7x28<br>or<br>10x30       | solid<br>or<br>7x30        | solid<br>or<br>7x32  | solid<br>or<br>7x34 |
| <b>Moderate Flexing</b><br>Frequently Disturbed<br>For Maintenance | 65x30                         | 19x27<br>or<br>41x30          | 19x29<br>or<br>26x30          | 16x30<br>or<br>41x34               | 7x28,<br>10x30,<br>19x32,<br>or<br>26x34 | 7x30<br>or<br>19x34        | 7x34<br>or<br>10x34  | 7x34                |
| <b>Severe Flexing</b><br>Microphone<br>Test Prods                  | 165x34                        | 104x34                        | 65x34<br>or<br>104x36         | 41x34<br>or<br>65x36               | 26x34<br>or<br>42x36                     | 19x34<br>or<br>26x36       | 19x36<br>or<br>45x40 | 7x34<br>or<br>10x36 |
| <b>Most Severe Duty</b><br>Mercury Switches                        | 259x36<br>(7x37<br>Rope Lay)* | 168x36<br>(7x24<br>Rope Lay)* | 105x36<br>(7x15<br>Rope Lay)* | 63x36<br>(7x9<br>Rope Lay)*        | 105x40<br>(3x35<br>Rope Lay)*            | (Consider Braid or Tinsel) |                      |                     |

Note: For a given AWG wire size (based on equal cross-sectional area of conductor), limpness and flex life are increased by use of a large number of fine strands. The finer stranding does result in higher costs.

\*Rope Lay is several stranded groups cabled together. For example: #12 AWG, 259x36 is 7 cords each consisting of 37 strands of #36 AWG

Hypalon and Teflon are DuPont trademarks.



## Technical Information

### Packaging

#### Drums

Conductor is available in three drum pack sizes:

- The #15 Beldpak® is 15" high and 23" in diameter.
- The #31 Beldpak is 30½" high and 23" in diameter.
- The #42 Beldpak (pictured) is 42" high and 23" in diameter.



Price and delivery information is available upon request.

| OD of Wire |      | #15 Beldpak |      | #31 Beldpak |      | #42 Beldpak |      |
|------------|------|-------------|------|-------------|------|-------------|------|
| Inch       | mm   | 1000'       | km   | 1000'       | km   | 1000'       | km   |
| .070       | 1.78 | 35          | 10.7 | 70          | 21.3 | 85          | 25.9 |
| .080       | 2.03 | 27          | 8.2  | 55          | 16.8 | 70          | 21.3 |
| .090       | 2.29 | 21          | 6.4  | 43          | 13.1 | 55          | 16.8 |
| .100       | 2.54 | 17          | 5.2  | 35          | 10.7 | 48          | 14.6 |
| .110       | 2.79 | 12          | 3.7  | 25          | 7.6  | 40          | 12.2 |
| .120       | 3.05 | 10          | 3.0  | 20          | 6.1  | 34          | 10.4 |
| .130       | 3.30 | 9           | 2.7  | 18          | 5.5  | 30          | 9.1  |
| .140       | 3.56 | 8           | 2.4  | 15          | 4.6  | 20          | 6.1  |
| .150       | 3.81 | 7           | 2.1  | 14          | 4.3  | 18          | 5.5  |
| .160       | 4.06 | 6           | 1.8  | 12          | 3.7  | 16          | 4.9  |
| .170       | 4.32 | 5           | 1.5  | 10          | 3.0  | 14          | 4.3  |

#### Reels

Reel dimensions will vary by size, determined by AWG of wire.



| OD of Wire |       | Quantity |      | Crate Reels* | Head Diameter |     | Barrel Diameter |     | Height Transverse |     |
|------------|-------|----------|------|--------------|---------------|-----|-----------------|-----|-------------------|-----|
| Inch       | mm    | 1000'    | km   |              | Inch          | mm  | Inch            | mm  | Inch              | mm  |
| .080       | 2.03  | 10.0     | 3.05 | 1748         | 15¾           | 400 | 8               | 203 | 8                 | 203 |
| .090       | 2.29  | 8.0      | 2.44 | 1748         | 15¾           | 400 | 8               | 203 | 8                 | 203 |
| .100       | 2.54  | 6.5      | 1.98 | 1748         | 15¾           | 400 | 8               | 203 | 8                 | 203 |
| .110       | 2.79  | 5.0      | 1.52 | 1748         | 15¾           | 400 | 8               | 203 | 8                 | 203 |
| .120       | 3.05  | 6.0      | 1.83 | 1747         | 15¾           | 400 | 8               | 203 | 10½               | 267 |
| .130       | 3.30  | 5.0      | 1.52 | 1747         | 15¾           | 400 | 8               | 203 | 10½               | 267 |
| .140       | 3.56  | 6.0      | 1.83 | 1746         | 17¾           | 451 | 8               | 203 | 10½               | 267 |
| .150       | 3.81  | 5.0      | 1.52 | 1746         | 17¾           | 451 | 8               | 203 | 10½               | 267 |
| .160       | 4.06  | 4.5      | 1.37 | 1746         | 17¾           | 451 | 8               | 203 | 10½               | 267 |
| .170       | 4.32  | 7.0      | 2.13 | 1744         | 22            | 559 | 10              | 254 | 14¼               | 362 |
| .180       | 4.57  | 6.0      | 1.83 | 1744         | 22            | 559 | 10              | 254 | 14¼               | 362 |
| .190       | 4.83  | 5.5      | 1.68 | 1744         | 22            | 559 | 10              | 254 | 14¼               | 362 |
| .200       | 5.08  | 5.0      | 1.52 | 1744         | 22            | 559 | 10              | 254 | 14¼               | 362 |
| .250       | 6.35  | 5.0      | 1.52 | 1743         | 26            | 660 | 10              | 254 | 14¼               | 362 |
| .300       | 7.62  | 3.5      | 1.07 | 1743         | 26            | 660 | 10              | 254 | 14¼               | 362 |
| .350       | 8.89  | 2.5      | .76  | 1743         | 26            | 660 | 10              | 254 | 14¼               | 362 |
| .400       | 10.16 | 2.0      | .61  | 1743         | 26            | 660 | 10              | 254 | 14¼               | 362 |
| .450       | 11.43 | 1.5      | .46  | 1743         | 26            | 660 | 10              | 254 | 14¼               | 362 |
| .500       | 12.70 | 1.2      | .37  | 1743         | 26            | 660 | 10              | 254 | 14¼               | 362 |
| .550       | 13.97 | 1.0      | .31  | 1743         | 26            | 660 | 10              | 254 | 14¼               | 362 |
| .600       | 15.24 | 1.2      | .37  | 1733         | 30            | 762 | 10              | 254 | 14¼               | 362 |

\*Crate Reel numbers are Belden's internal numbers. They are representative only to the extent of the dimensions shown. Weight of the wire may require another reel with dimensions identical to those shown.



By:



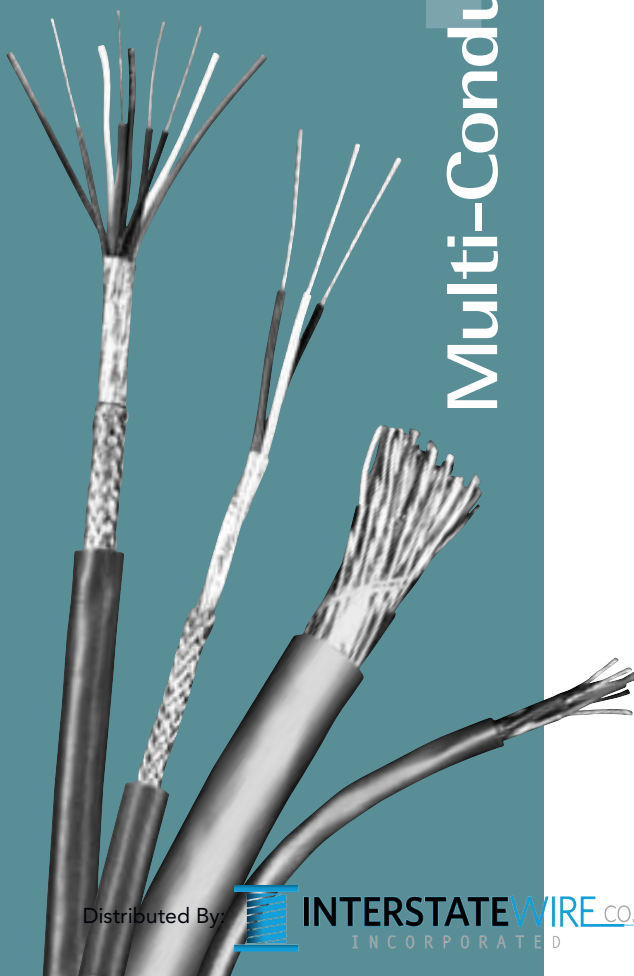
INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010



# 4 Multi-Conductor



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Please refer to "Terms of Use of Master Catalog" on page 16.30.



## Introduction

Belden® multi-conductor cables are manufactured in a wide variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions. These cables meet the technical requirements of many different types of systems. In fact, Belden offers one of the broadest lines of UL Listed, NEC and CEC multi-conductor cables available from any single source.

Applications for multi-conductor cables include computers, communications, instrumentation, sound, control, audio, and data transmission. Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

To assist you in selecting the proper cable for your application, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable product in this section.

Most of our multi-conductor cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a multi-conductor cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Multi-Conductor Cables Packaging

Belden's unique UnReel® cable dispenser is available for many of the multi-conductor products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

### Shielded Multi-Conductor Computer Cables for RS-232 Applications

| Specifications                  |                    | Cable Series* |      |      |      |
|---------------------------------|--------------------|---------------|------|------|------|
|                                 |                    | 9925          | 9608 | 9533 | 9939 |
| <b>Conductor Size:</b><br>(AWG) | 28                 |               |      |      |      |
|                                 | 24                 | ✓             | ✓    | ✓    |      |
|                                 | 22                 |               |      |      | ✓    |
|                                 | 20                 |               |      |      |      |
|                                 | 18                 |               |      |      |      |
| Page No.                        |                    | 4.18          | 4.17 | 4.11 | 4.19 |
| <b>Insulation:</b>              | S-R PVC            |               | ✓    | ✓    | ✓    |
|                                 | Polyethylene       |               |      |      |      |
|                                 | Polypropylene      |               |      |      |      |
|                                 | Datalene®†         | ✓             |      |      |      |
| <b>Shield:</b>                  | Overall Foil       |               |      | ✓    |      |
|                                 | Drain Wire         | ✓             |      | ✓    |      |
|                                 | Overall Foil/Braid | ✓             | ✓    |      | ✓    |
|                                 | Braid Coverage     | 65%           | 65%  |      | 65%  |
| <b>Drain Wire Overall:</b>      |                    | Yes           | No   | Yes  | No   |
| <b>No. of Cond. Available:</b>  | 1                  |               |      |      |      |
|                                 | 2                  |               |      |      |      |
|                                 | 3                  | ✓             | ✓    | ✓    | ✓    |
|                                 | 4                  | ✓             | ✓    | ✓    | ✓    |
|                                 | 5                  | ✓             | ✓    | ✓    | ✓    |
|                                 | 6                  | ✓             | ✓    | ✓    | ✓    |
|                                 | 7                  | ✓             | ✓    | ✓    | ✓    |
|                                 | 8                  | ✓             | ✓    | ✓    | ✓    |
|                                 | 9                  | ✓             | ✓    | ✓    | ✓    |
|                                 | 10                 | ✓             | ✓    | ✓    | ✓    |
|                                 | 11                 |               |      |      |      |
|                                 | 12                 |               |      |      |      |
|                                 | 13                 |               |      |      |      |
|                                 | 15                 | ✓             | ✓    | ✓    | ✓    |
|                                 | 17                 |               |      |      |      |
|                                 | 18                 |               |      |      |      |
|                                 | 19                 |               |      |      |      |
|                                 | 20                 |               |      | ✓    |      |
|                                 | 25                 | ✓             | ✓    | ✓    | ✓    |
|                                 | 27                 |               |      |      |      |
|                                 | 30                 |               |      | ✓    |      |
|                                 | 31                 |               |      |      |      |
|                                 | 37                 | ✓             | ✓    |      | ✓    |
|                                 | 40                 |               |      | ✓    |      |
|                                 | 50                 |               | ✓    | ✓    | ✓    |
| <b>Capacitance** (pF/ft.)</b>   |                    | 12.0          | 30.0 | 30.0 | 35.0 |

\*All cables are UL-listed.

\*\*Capacitance may vary on some cables.

†Foam high density polyethylene.



By:



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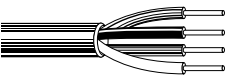
1-800-527-0010

**Unshielded**

Audio, Control and Instrumentation Cables  
Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**22 AWG Solid Conductors • Bare Copper • Conductors Cabled**

| <b>Polyethylene Insulation • Rose Gray PVC Jacket</b>                                                                 |             |                          |   |                                    |        |         |      |      |      |     |      |     |      |      |
|-----------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|---|------------------------------------|--------|---------|------|------|------|-----|------|-----|------|------|
| <br>UL AWM Style 2092<br>(300V 60°C) | <b>8795</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | Red,<br>Green                      | U-500  | U-152.4 | 10.0 | 4.5  | .018 | .46 | .022 | .56 | .168 | 4.27 |
|                                                                                                                       |             |                          |   |                                    | U-1000 | U-304.8 | 19.0 | 8.6  |      |     |      |     |      |      |
|                                                                                                                       |             |                          |   |                                    | 1000   | 304.8   | 21.0 | 9.5  |      |     |      |     |      |      |
| <br>UL AWM Style 2093<br>(300V 60°C) | <b>8794</b> | NEC:<br>CM               | 3 | Green,<br>Red,<br>Yellow           | U-1000 | U-304.8 | 22.0 | 10.0 | .018 | .46 | .022 | .56 | .178 | 4.52 |
|                                                                                                                       |             |                          |   |                                    | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |
| <br>UL AWM Style 2094<br>(300V 60°C) | <b>9794</b> | NEC:<br>MP, CM           | 4 | Green,<br>Red,<br>Yellow,<br>Black | U-500  | U-152.4 | 14.0 | 6.4  | .018 | .46 | .025 | .64 | .200 | 5.08 |
|                                                                                                                       |             |                          |   |                                    | U-1000 | U-304.8 | 27.0 | 12.3 |      |     |      |     |      |      |
|                                                                                                                       |             |                          |   |                                    | 1000   | 304.8   | 27.0 | 12.3 |      |     |      |     |      |      |

**22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled**

| PVC Insulation • Chrome PVC Jacket                                                                                      |         |         |                                          |                         |         |         |      |      |                                                     |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------------|---------|---------|------------------------------------------|-------------------------|---------|---------|------|------|-----------------------------------------------------|------|------|------|------|------|
|                                       | 8442    | NEC:    | 2                                        | Black,<br>Red           | 100     | 30.5    | 2.4  | 1.1  | .015                                                | .38  | .025 | .64  | .170 | 4.32 |
|                                                                                                                         |         | CMG     |                                          |                         | U-500   | U-152.4 | 7.5  | 3.4  |                                                     |      |      |      |      |      |
|                                                                                                                         |         | CEC:    |                                          |                         | 500     | 152.4   | 7.5  | 3.4  |                                                     |      |      |      |      |      |
|                                                                                                                         |         | CMG FT4 |                                          |                         | U-1000  | U-304.8 | 15.0 | 6.8  |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          |                         | 1000    | 304.8   | 15.0 | 6.8  |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         | 10000                                    | 3048.0                  | 150.0   | 68.2    |      |      | For Plenum versions of 8442,<br>see 88442 or 82442. |      |      |      |      |      |
| UL AWM Style 2576<br>(150V 80°C)<br> | 8443    | NEC:    | 3                                        | Black,<br>Red,<br>Green | 100     | 30.5    | 2.8  | 1.3  | .010                                                | .25  | .032 | .81  | .172 | 4.37 |
|                                                                                                                         |         | CMG     |                                          |                         | U-500   | U-152.4 | 9.5  | 4.3  |                                                     |      |      |      |      |      |
|                                                                                                                         |         | CEC:    |                                          |                         | 500     | 152.4   | 9.5  | 4.3  |                                                     |      |      |      |      |      |
|                                                                                                                         |         | CMG FT4 |                                          |                         | U-1000  | U-304.8 | 18.0 | 8.2  |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          |                         | 1000    | 304.8   | 18.0 | 8.2  |                                                     |      |      |      |      |      |
| 8444                                                                                                                    | NEC:    | 4       | See<br>Chart 1<br>(Tech Info<br>Section) | 100                     | 30.5    | 3.2     | 1.5  | .010 | .25                                                 | .032 | .81  | .185 | 4.70 |      |
|                                                                                                                         | CMG     |         |                                          | U-500                   | U-152.4 | 11.5    | 5.2  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CEC:    |         |                                          | 500                     | 152.4   | 11.5    | 5.2  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CMG FT4 |         |                                          | U-1000                  | U-304.8 | 22.0    | 10.0 |      |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          | 1000                    | 304.8   | 23.0    | 10.5 |      |                                                     |      |      |      |      |      |
| 8445                                                                                                                    | NEC:    | 5       | See<br>Chart 1<br>(Tech Info<br>Section) | 100                     | 30.5    | 3.5     | 1.6  | .010 | .25                                                 | .032 | .81  | .194 | 4.93 |      |
|                                                                                                                         | CMG     |         |                                          | U-500                   | U-152.4 | 13.5    | 6.1  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CEC:    |         |                                          | 500                     | 152.4   | 13.5    | 6.1  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CMG FT4 |         |                                          | U-1000                  | U-304.8 | 26.0    | 11.8 |      |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          | 1000                    | 304.8   | 26.0    | 11.8 |      |                                                     |      |      |      |      |      |
| 9430                                                                                                                    | NEC:    | 7       | See<br>Chart 1<br>(Tech Info<br>Section) | U-500                   | U-152.4 | 16.5    | 7.5  | .010 | .25                                                 | .032 | .81  | .214 | 5.44 |      |
|                                                                                                                         | CMG     |         |                                          | 500                     | 152.4   | 17.0    | 7.7  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CEC:    |         |                                          | U-1000                  | U-304.8 | 33.0    | 15.0 |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CMG FT4 |         |                                          | 1000                    | 304.8   | 33.0    | 15.0 |      |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          |                         |         |         |      |      |                                                     |      |      |      |      |      |
| 9421                                                                                                                    | NEC:    | 8       | See<br>Chart 1<br>(Tech Info<br>Section) | 100                     | 30.5    | 4.7     | 2.1  | .010 | .25                                                 | .032 | .81  | .229 | 5.82 |      |
|                                                                                                                         | CMG     |         |                                          | U-500                   | U-152.4 | 18.5    | 8.4  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CEC:    |         |                                          | 500                     | 152.4   | 19.0    | 8.6  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CMG FT4 |         |                                          | U-1000                  | U-304.8 | 37.0    | 16.8 |      |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          | 1000                    | 304.8   | 37.0    | 16.8 |      |                                                     |      |      |      |      |      |
| 9423                                                                                                                    | NEC:    | 9       | See<br>Chart 1<br>(Tech Info<br>Section) | 100                     | 30.5    | 5.2     | 2.4  | .010 | .25                                                 | .032 | .81  | .244 | 6.20 |      |
|                                                                                                                         | CMG     |         |                                          | U-500                   | U-152.4 | 21.5    | 9.8  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CEC:    |         |                                          | 500                     | 152.4   | 21.5    | 9.8  |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CMG FT4 |         |                                          | U-1000                  | U-304.8 | 42.0    | 19.1 |      |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          | 1000                    | 304.8   | 42.0    | 19.1 |      |                                                     |      |      |      |      |      |
| 8456                                                                                                                    | NEC:    | 10      | See<br>Chart 1<br>(Tech Info<br>Section) | 100                     | 30.5    | 5.7     | 2.6  | .010 | .25                                                 | .032 | .81  | .264 | 6.71 |      |
|                                                                                                                         | CMG     |         |                                          | U-500                   | U-152.4 | 22.5    | 10.2 |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CEC:    |         |                                          | 500                     | 152.4   | 23.0    | 10.5 |      |                                                     |      |      |      |      |      |
|                                                                                                                         | CMG FT4 |         |                                          | U-1000                  | U-304.8 | 45.0    | 20.5 |      |                                                     |      |      |      |      |      |
|                                                                                                                         |         |         |                                          | 1000                    | 304.8   | 46.0    | 20.9 |      |                                                     |      |      |      |      |      |

## Unshielded

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled (continued)

| PVC Insulation • Chrome PVC Jacket                                               |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|----------------------------------------------------------------------------------|-------------|---------|----|-------------------------------------------|--------|---------|-------|------|------|-----|------|------|------|-------|
|  | <b>8457</b> | NEC:    | 12 | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 6.3   | 2.9  | .010 | .25 | .032 | .81  | .272 | 6.91  |
|                                                                                  |             | CMG     |    |                                           | U-500  | U-152.4 | 26.0  | 11.8 |      |     |      |      |      |       |
|                                                                                  |             | CEC:    |    |                                           | 500    | 152.4   | 26.0  | 11.8 |      |     |      |      |      |       |
|                                                                                  |             | CMG FT4 |    |                                           | U-1000 | U-304.8 | 51.0  | 23.2 |      |     |      |      |      |       |
|                                                                                  |             |         |    |                                           | 1000   | 304.8   | 52.0  | 23.6 |      |     |      |      |      |       |
|                                                                                  | <b>8458</b> | NEC:    | 15 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 7.3   | 3.3  | .010 | .25 | .040 | 1.02 | .315 | 8.00  |
|                                                                                  |             | CMG     |    |                                           | 500    | 152.4   | 34.5  | 15.7 |      |     |      |      |      |       |
|                                                                                  |             | CEC:    |    |                                           | 1000   | 304.8   | 72.0  | 32.7 |      |     |      |      |      |       |
|                                                                                  |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  | <b>9431</b> | NEC:    | 20 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 9.1   | 4.1  | .010 | .25 | .040 | 1.02 | .345 | 8.76  |
|                                                                                  |             | CMG     |    |                                           | 500    | 152.4   | 48.5  | 22.0 |      |     |      |      |      |       |
|                                                                                  |             | CEC:    |    |                                           | 1000   | 304.8   | 87.0  | 39.5 |      |     |      |      |      |       |
|                                                                                  |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  | <b>8459</b> | NEC:    | 25 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 11.1  | 5.0  | .010 | .25 | .040 | 1.02 | .387 | 9.83  |
|                                                                                  |             | CMG     |    |                                           | 500    | 152.4   | 55.0  | 25.0 |      |     |      |      |      |       |
|                                                                                  |             | CEC:    |    |                                           | 1000   | 304.8   | 109.0 | 49.5 |      |     |      |      |      |       |
|                                                                                  |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  | <b>9432</b> | NEC:    | 30 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 12.5  | 5.7  | .010 | .25 | .040 | 1.02 | .400 | 10.16 |
|                                                                                  |             | CMG     |    |                                           | 500    | 152.4   | 62.5  | 28.4 |      |     |      |      |      |       |
|                                                                                  |             | CEC:    |    |                                           | 1000   | 304.8   | 124.0 | 56.4 |      |     |      |      |      |       |
|                                                                                  |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  | <b>9433</b> | NEC:    | 40 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 16.7  | 7.6  | .010 | .25 | .040 | 1.02 | .455 | 11.56 |
|                                                                                  |             | CMG     |    |                                           | 500    | 152.4   | 83.0  | 37.7 |      |     |      |      |      |       |
|                                                                                  |             | CEC:    |    |                                           | 1000   | 304.8   | 161.0 | 73.2 |      |     |      |      |      |       |
|                                                                                  |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  | <b>9434</b> | NEC:    | 50 | See<br>Chart 2R<br>(Tech Info<br>Section) | 500    | 152.4   | 100.5 | 45.7 | .010 | .25 | .045 | 1.14 | .500 | 12.70 |
|                                                                                  |             | CMG     |    |                                           | 1000   | 304.8   | 206.0 | 93.6 |      |     |      |      |      |       |
|                                                                                  |             | CEC:    |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                  |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |

| Plenum • FEP Insulation • Red FEP Jacket                                           |               |         |   |                                   |                   |       |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|---------------|---------|---|-----------------------------------|-------------------|-------|------|-----|------|-----|------|-----|------|------|
|  | <b>88442*</b> | NEC:    | 2 | Black,<br>Red                     | 100               | 30.5  | 2.3  | 1.0 | .006 | .15 | .012 | .30 | .102 | 2.59 |
|                                                                                    |               | CMP     |   |                                   | 500 <sup>†</sup>  | 152.4 | 5.5  | 2.5 |      |     |      |     |      |      |
|                                                                                    |               | CEC:    |   |                                   | 1000 <sup>†</sup> | 304.8 | 10.0 | 4.5 |      |     |      |     |      |      |
|                                                                                    |               | CMP FT6 |   |                                   |                   |       |      |     |      |     |      |     |      |      |
|  | <b>88444</b>  | NEC:    | 4 | Black,<br>White,<br>Red,<br>Green | 100               | 30.5  | 3.0  | 1.4 | .006 | .15 | .010 | .25 | .121 | 3.07 |
|                                                                                    |               | CMP     |   |                                   | 500 <sup>†</sup>  | 152.4 | 9.0  | 4.1 |      |     |      |     |      |      |
|                                                                                    |               | CEC:    |   |                                   | 1000 <sup>†</sup> | 304.8 | 16.0 | 7.3 |      |     |      |     |      |      |
|                                                                                    |               | CMP FT6 |   |                                   |                   |       |      |     |      |     |      |     |      |      |

Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                               |                                     |         |   |                                   |                     |         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|-------------------------------------|---------|---|-----------------------------------|---------------------|---------|------|------|------|-----|------|-----|------|------|
|  | <b>82442*</b><br><small>new</small> | NEC:    | 2 | Black,<br>Red                     | U-1000 <sup>†</sup> | U-304.8 | 83.0 | 37.7 | .006 | .15 | .014 | .36 | .112 | 2.84 |
|                                                                                    |                                     | CMP     |   |                                   | 1000 <sup>†</sup>   | 304.8   | 84.0 | 38.2 |      |     |      |     |      |      |
|                                                                                    |                                     | CEC:    |   |                                   |                     |         |      |      |      |     |      |     |      |      |
|                                                                                    |                                     | CMP FT6 |   |                                   |                     |         |      |      |      |     |      |     |      |      |
|  | <b>82444</b>                        | NEC:    | 4 | Black,<br>White,<br>Red,<br>Green | U-500 <sup>†</sup>  | U-152.4 | 8.5  | 3.9  | .006 | .15 | .015 | .38 | .134 | 3.40 |
|                                                                                    |                                     | CMP     |   |                                   | U-1000 <sup>†</sup> | U-304.8 | 17.0 | 7.7  |      |     |      |     |      |      |
|                                                                                    |                                     | CEC:    |   |                                   | 1000 <sup>†</sup>   | 304.8   | 17.0 | 7.7  |      |     |      |     |      |      |
|                                                                                    |                                     | CMP FT6 |   |                                   |                     |         |      |      |      |     |      |     |      |      |

\* Twisted Pair

<sup>†</sup> Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



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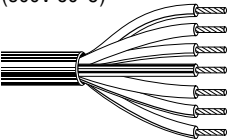
**Unshielded**

Audio, Control and Instrumentation Cables

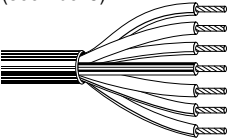
Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**20 AWG Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled**

| PVC Insulation • Chrome PVC Jacket                                                                                    |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|-----------------------------------------------------------------------------------------------------------------------|-------------|---------|----|-------------------------------------------|--------|---------|-------|------|------|-----|------|------|------|------|
| UL AWM Style 2464<br>(300V 80°C)<br> | <b>9444</b> | NEC:    | 4  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 4.0   | 1.8  | .013 | .33 | .032 | .81  | .217 | 5.51 |
|                                                                                                                       |             | CMG     |    |                                           | U-500  | U-152.4 | 16.5  | 7.5  |      |     |      |      |      |      |
|                                                                                                                       |             | CEC:    |    |                                           | 500    | 152.4   | 16.5  | 7.5  |      |     |      |      |      |      |
|                                                                                                                       |             | CMG FT4 |    |                                           | U-1000 | U-304.8 | 32.0  | 14.5 |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           | 1000   | 304.8   | 32.0  | 14.5 |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       | <b>9445</b> | NEC:    | 5  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 4.9   | 2.2  | .013 | .33 | .032 | .81  | .239 | 6.07 |
|                                                                                                                       |             | CMG     |    |                                           | U-500  | U-152.4 | 19.5  | 8.9  |      |     |      |      |      |      |
|                                                                                                                       |             | CEC:    |    |                                           | 500    | 152.4   | 20.0  | 9.1  |      |     |      |      |      |      |
|                                                                                                                       |             | CMG FT4 |    |                                           | U-1000 | U-304.8 | 39.0  | 17.7 |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           | 1000   | 304.8   | 40.0  | 18.2 |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       | <b>9439</b> | NEC:    | 7  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 6.2   | 2.8  | .013 | .33 | .032 | .81  | .260 | 6.60 |
|                                                                                                                       |             | CMG     |    |                                           | U-500  | U-152.4 | 26.5  | 12.0 |      |     |      |      |      |      |
|                                                                                                                       |             | CEC:    |    |                                           | 500    | 152.4   | 27.0  | 12.3 |      |     |      |      |      |      |
|                                                                                                                       |             | CMG FT4 |    |                                           | U-1000 | U-304.8 | 52.0  | 23.6 |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           | 1000   | 304.8   | 53.0  | 24.1 |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       | <b>9455</b> | NEC:    | 9  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 7.1   | 3.2  | .013 | .33 | .035 | .89  | .317 | 8.05 |
|                                                                                                                       |             | CMG     |    |                                           | 500    | 152.4   | 35.0  | 15.9 |      |     |      |      |      |      |
|                                                                                                                       |             | CEC:    |    |                                           | 1000   | 304.8   | 67.0  | 30.5 |      |     |      |      |      |      |
|                                                                                                                       |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       | <b>9457</b> | NEC:    | 12 | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 8.9   | 4.0  | .013 | .33 | .035 | .89  | .338 | 8.58 |
|                                                                                                                       |             | CMG     |    |                                           | 500    | 152.4   | 43.5  | 19.8 |      |     |      |      |      |      |
|                                                                                                                       |             | CEC:    |    |                                           | 1000   | 304.8   | 85.0  | 38.6 |      |     |      |      |      |      |
|                                                                                                                       |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       | <b>9458</b> | NEC:    | 15 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 12.0  | 5.5  | .013 | .33 | .040 | 1.02 | .389 | 9.88 |
|                                                                                                                       |             | CMG     |    |                                           | 500    | 152.4   | 57.0  | 25.9 |      |     |      |      |      |      |
|                                                                                                                       |             | CEC:    |    |                                           | 1000   | 304.8   | 111.0 | 50.5 |      |     |      |      |      |      |
|                                                                                                                       |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |
|                                                                                                                       |             |         |    |                                           |        |         |       |      |      |     |      |      |      |      |

**18 AWG Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled**

| PVC Insulation • Chrome PVC Jacket                                                                                      |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|-------------------------------------------------------------------------------------------------------------------------|-------------|---------|----|-------------------------------------------|--------|---------|-------|------|------|-----|------|------|------|-------|
| UL AWM Style 2598<br>(300V 60°C)<br> | <b>8489</b> | NEC:    | 4  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 5.6   | 2.5  | .017 | .43 | .032 | .81  | .257 | 6.53  |
|                                                                                                                         |             | CMG     |    |                                           | 250    | 76.2    | 12.0  | 5.5  |      |     |      |      |      |       |
|                                                                                                                         |             | CEC:    |    |                                           | U-500  | U-152.4 | 23.5  | 10.7 |      |     |      |      |      |       |
|                                                                                                                         |             | CMG FT4 |    |                                           | 500    | 152.4   | 24.0  | 10.9 |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           | U-1000 | U-304.8 | 47.0  | 21.4 |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           | 1000   | 304.8   | 48.0  | 21.8 |      |     |      |      |      |       |
|                                                                                                                         | <b>8465</b> | NEC:    | 5  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 7.1   | 3.2  | .017 | .43 | .033 | .84  | .282 | 7.16  |
|                                                                                                                         |             | CMG     |    |                                           | U-500  | U-152.4 | 30.0  | 13.6 |      |     |      |      |      |       |
|                                                                                                                         |             | CEC:    |    |                                           | 500    | 152.4   | 30.0  | 13.6 |      |     |      |      |      |       |
|                                                                                                                         |             | CMG FT4 |    |                                           | U-1000 | U-304.8 | 59.0  | 26.8 |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           | 1000   | 304.8   | 60.0  | 27.3 |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         | <b>8467</b> | NEC:    | 7  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 8.3   | 3.8  | .017 | .43 | .037 | .94  | .314 | 7.98  |
|                                                                                                                         |             | CMG     |    |                                           | 250    | 76.2    | 20.3  | 9.2  |      |     |      |      |      |       |
|                                                                                                                         |             | CEC:    |    |                                           | 500    | 152.4   | 39.5  | 18.0 |      |     |      |      |      |       |
|                                                                                                                         |             | CMG FT4 |    |                                           | 1000   | 304.8   | 79.0  | 35.9 |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         | <b>8469</b> | NEC:    | 9  | See<br>Chart 1<br>(Tech Info<br>Section)  | 100    | 30.5    | 10.5  | 4.8  | .017 | .43 | .037 | .94  | .364 | 9.25  |
|                                                                                                                         |             | CMG     |    |                                           | 250    | 76.2    | 26.0  | 11.8 |      |     |      |      |      |       |
|                                                                                                                         |             | CEC:    |    |                                           | 500    | 152.4   | 51.0  | 23.2 |      |     |      |      |      |       |
|                                                                                                                         |             | CMG FT4 |    |                                           | 1000   | 304.8   | 105.0 | 47.7 |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         | <b>8466</b> | NEC:    | 12 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 13.2  | 6.0  | .017 | .43 | .040 | 1.02 | .412 | 10.46 |
|                                                                                                                         |             | CMG     |    |                                           | 250    | 76.2    | 32.5  | 14.8 |      |     |      |      |      |       |
|                                                                                                                         |             | CEC:    |    |                                           | 500    | 152.4   | 66.0  | 30.1 |      |     |      |      |      |       |
|                                                                                                                         |             | CMG FT4 |    |                                           | 1000   | 304.8   | 131.0 | 59.5 |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         | <b>8468</b> | NEC:    | 15 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100    | 30.5    | 18.1  | 8.2  | .017 | .43 | .045 | 1.14 | .500 | 12.70 |
|                                                                                                                         |             | CMG     |    |                                           | 500    | 152.4   | 89.5  | 40.7 |      |     |      |      |      |       |
|                                                                                                                         |             | CEC:    |    |                                           | 1000   | 304.8   | 175.0 | 79.5 |      |     |      |      |      |       |
|                                                                                                                         |             | CMG FT4 |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                         |             |         |    |                                           |        |         |       |      |      |     |      |      |      |       |

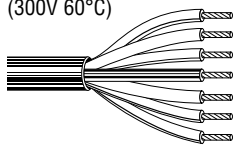
## Unshielded

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

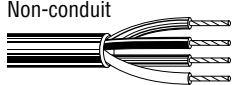
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**18 AWG** Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled (continued)

### PVC Insulation • Chrome PVC Jacket

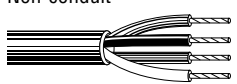
|                                                                                  |             |                                |    |                                           |      |       |       |       |      |     |      |      |      |       |
|----------------------------------------------------------------------------------|-------------|--------------------------------|----|-------------------------------------------|------|-------|-------|-------|------|-----|------|------|------|-------|
|  | <b>8619</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 19 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 20.4  | 9.3   | .017 | .43 | .045 | 1.14 | .490 | 12.45 |
|                                                                                  |             |                                |    |                                           | 500  | 152.4 | 101.0 | 45.9  |      |     |      |      |      |       |
|                                                                                  |             |                                |    |                                           | 1000 | 304.8 | 198.0 | 90.0  |      |     |      |      |      |       |
|                                                                                  | <b>9626</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 25 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 28.1  | 12.8  | .017 | .43 | .060 | 1.52 | .612 | 15.54 |
|                                                                                  |             |                                |    |                                           | 500  | 152.4 | 139.5 | 63.4  |      |     |      |      |      |       |
|                                                                                  |             |                                |    |                                           | 1000 | 304.8 | 277.0 | 125.9 |      |     |      |      |      |       |

### Plenum • FEP Insulation • Red FEP Jacket

|                                                                                  |              |                                |   |                                   |                   |       |      |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------|--------------|--------------------------------|---|-----------------------------------|-------------------|-------|------|------|------|-----|------|-----|------|------|
|  | <b>88489</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | Black,<br>White,<br>Red,<br>Green | 500 <sup>†</sup>  | 152.4 | 16.5 | 7.5  | .007 | .18 | .009 | .23 | .161 | 4.09 |
|                                                                                  |              |                                |   |                                   | 1000 <sup>†</sup> | 304.8 | 31.0 | 14.1 |      |     |      |     |      |      |

Suitable for Outdoor and Direct Burial applications.

### Plenum • FEP Insulation • Natural Flamarrest® Jacket

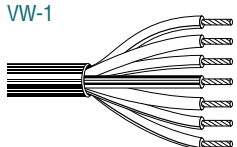
|                                                                                  |              |                                |   |                                   |                     |         |      |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------|--------------|--------------------------------|---|-----------------------------------|---------------------|---------|------|------|------|-----|------|-----|------|------|
|  | <b>82489</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | Black,<br>White,<br>Red,<br>Green | U-1000 <sup>†</sup> | U-304.8 | 31.0 | 14.1 | .007 | .18 | .014 | .36 | .170 | 4.32 |
|                                                                                  |              |                                |   |                                   | 1000 <sup>†</sup>   | 304.8   | 31.0 | 14.1 |      |     |      |     |      |      |

**16 AWG** Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled

### PVC Insulation • Cabled Wire (No Jacket)

|                                                                                    |             |  |   |                                                |      |       |      |      |      |     |   |   |      |      |
|------------------------------------------------------------------------------------|-------------|--|---|------------------------------------------------|------|-------|------|------|------|-----|---|---|------|------|
|  | <b>9498</b> |  | 3 | Orange,<br>Black,<br>Orange w/<br>Black Stripe | 1000 | 304.8 | 42.0 | 19.1 | .027 | .69 | — | — | .243 | 6.17 |
|------------------------------------------------------------------------------------|-------------|--|---|------------------------------------------------|------|-------|------|------|------|-----|---|---|------|------|

### PVC Insulation • Chrome PVC Jacket

|                                                                                    |             |    |                                        |      |       |       |       |      |     |      |      |      |       |
|------------------------------------------------------------------------------------|-------------|----|----------------------------------------|------|-------|-------|-------|------|-----|------|------|------|-------|
|  | <b>8620</b> | 4  | See Chart 2<br>(Tech Info<br>Section)  | 100  | 30.5  | 8.9   | 4.0   | .031 | .79 | .042 | 1.07 | .376 | 9.55  |
|                                                                                    |             |    |                                        | 500  | 152.4 | 44.0  | 20.0  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 88.0  | 40.0  |      |     |      |      |      |       |
|                                                                                    | <b>9620</b> | 5  | See Chart 2<br>(Tech Info<br>Section)  | 100  | 30.5  | 11.0  | 5.0   | .031 | .79 | .042 | 1.07 | .411 | 10.44 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 53.5  | 24.3  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 109.0 | 49.5  |      |     |      |      |      |       |
|                                                                                    | <b>8621</b> | 7  | See Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 14.9  | 6.8   | .031 | .79 | .045 | 1.14 | .458 | 11.63 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 73.5  | 33.4  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 143.0 | 65.0  |      |     |      |      |      |       |
|                                                                                    | <b>9721</b> | 8  | See Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 27.5  | 12.5  | .031 | .79 | .045 | 1.14 | .496 | 12.60 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 136.5 | 62.0  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 269.0 | 122.3 |      |     |      |      |      |       |
|                                                                                    | <b>9621</b> | 9  | See Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 19.0  | 8.7   | .031 | .79 | .045 | 1.14 | .533 | 13.54 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 93.5  | 42.5  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 180.0 | 81.8  |      |     |      |      |      |       |
|                                                                                    | <b>8622</b> | 12 | See Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 27.0  | 12.3  | .031 | .79 | .060 | 1.52 | .627 | 15.93 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 126.0 | 57.3  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 251.0 | 114.1 |      |     |      |      |      |       |
|                                                                                    | <b>8623</b> | 15 | See Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 32.4  | 14.7  | .031 | .79 | .060 | 1.52 | .694 | 17.63 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 155.0 | 70.5  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 314.0 | 142.7 |      |     |      |      |      |       |
|                                                                                    | <b>8624</b> | 19 | See Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 38.5  | 17.5  | .031 | .79 | .065 | 1.65 | .740 | 18.80 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 178.5 | 81.1  |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 361.0 | 164.1 |      |     |      |      |      |       |
|                                                                                    | <b>9622</b> | 25 | See Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 49.0  | 22.3  | .031 | .79 | .065 | 1.65 | .879 | 22.33 |
|                                                                                    |             |    |                                        | 500  | 152.4 | 236.0 | 107.3 |      |     |      |      |      |       |
|                                                                                    |             |    |                                        | 1000 | 304.8 | 480.0 | 218.2 |      |     |      |      |      |       |

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ± 10% for spools and ± 5% for UnReel from length shown.



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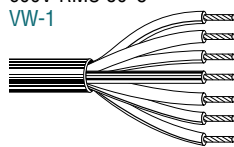
1-800-527-0010

## Unshielded

Audio, Control, Communication and Instrumentation Cables  
Non-Plenum and Special Non-Plenum

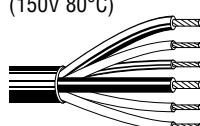
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**14 AWG** Stranded Conductors (19x27) • Tinned Copper • Conductors Cabled

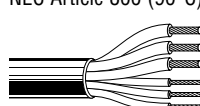
| PVC Insulation • Chrome PVC Jacket                                                                         |             |  |    |                                          |      |       |       |       |      |      |      |      |      |       |
|------------------------------------------------------------------------------------------------------------|-------------|--|----|------------------------------------------|------|-------|-------|-------|------|------|------|------|------|-------|
| 600V RMS 80°C<br>VW-1<br> | <b>8627</b> |  | 4  | See<br>Chart 2<br>(Tech Info<br>Section) | 100  | 30.5  | 15.5  | 7.1   | .045 | 1.14 | .045 | 1.14 | .490 | 12.45 |
|                                                                                                            |             |  |    |                                          | 500  | 152.4 | 75.0  | 34.1  |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          | 1000 | 304.8 | 145.0 | 65.9  |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          |      |       |       |       |      |      |      |      |      |       |
|                                                                                                            | <b>9623</b> |  | 5  | See<br>Chart 2<br>(Tech Info<br>Section) | 100  | 30.5  | 19.6  | 8.9   | .045 | 1.14 | .060 | 1.52 | .573 | 14.55 |
|                                                                                                            |             |  |    |                                          | 500  | 152.4 | 96.5  | 43.9  |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          | 1000 | 304.8 | 192.0 | 87.3  |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          |      |       |       |       |      |      |      |      |      |       |
|                                                                                                            | <b>8628</b> |  | 7  | See<br>Chart 2<br>(Tech Info<br>Section) | 100  | 30.5  | 25.8  | 11.7  | .045 | 1.14 | .060 | 1.52 | .623 | 15.82 |
|                                                                                                            |             |  |    |                                          | 500  | 152.4 | 128.0 | 58.2  |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          | 1000 | 304.8 | 254.0 | 115.5 |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          |      |       |       |       |      |      |      |      |      |       |
|                                                                                                            | <b>8629</b> |  | 12 | See<br>Chart 2<br>(Tech Info<br>Section) | 100  | 30.5  | 46.3  | 21.0  | .045 | 1.14 | .065 | 1.65 | .824 | 20.93 |
|                                                                                                            |             |  |    |                                          | 500  | 152.4 | 222.0 | 100.9 |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          | 1000 | 304.8 | 454.0 | 206.4 |      |      |      |      |      |       |
|                                                                                                            |             |  |    |                                          |      |       |       |       |      |      |      |      |      |       |

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 and 18 AWG** Stranded Conductors (7x30 and 16x30) • Tinned Copper • Conductors Cabled

| PVC Insulation • Chrome PVC Jacket                                                                                      |             |                                |                        |                               |        |         |      |      |      |     |      |      |      |      |    |    |    |     |
|-------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------|------------------------|-------------------------------|--------|---------|------|------|------|-----|------|------|------|------|----|----|----|-----|
| UL AWM Style 2576<br>(150V 80°C)<br> | <b>8446</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 6:                     | Red, Green,<br>Brown,<br>Blue | 100    | 30.5    | 5.2  | 2.4  | .010 | .25 | .032 | .081 | .236 | 5.99 | 30 | 98 | 54 | 177 |
|                                                                                                                         |             |                                | 4 Unshld<br>22 (7x30)  |                               | U-500  | U-152.4 | 21.0 | 9.5  |      |     |      |      |      |      |    |    |    |     |
|                                                                                                                         |             |                                | 2 Unshld<br>18 (16x30) | Black,<br>White               | 500    | 152.4   | 21.5 | 9.8  |      |     |      |      |      |      |    |    |    |     |
|                                                                                                                         |             |                                |                        |                               | U-1000 | U-304.8 | 42.0 | 19.1 | .019 | .48 |      |      |      |      |    |    |    |     |
|                                                                                                                         |             |                                |                        |                               | 1000   | 304.8   | 42.0 | 19.1 |      |     |      |      |      |      |    |    |    |     |

**20 and 16 AWG** Stranded Conductors (7x28 and 19x28) • Tinned Copper • Conductors Cabled

| PVC Insulation • Chrome PVC Jacket                                                                            |             |            |                        |                           |       |         |      |      |      |     |      |     |      |      |    |    |    |     |
|---------------------------------------------------------------------------------------------------------------|-------------|------------|------------------------|---------------------------|-------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| NEC Article 800 (90°C)<br> | <b>9686</b> | NEC:<br>CM | 6:                     | Green,<br>Blue,<br>Purple | U-500 | U-152.4 | 33.0 | 15.0 | .012 | .30 | .032 | .81 | .295 | 7.49 | 20 | 66 | 36 | 118 |
|                                                                                                               |             |            | 3 Unshld<br>20 (7x28)  |                           |       |         |      |      |      |     |      |     |      |      |    |    |    |     |
|                                                                                                               |             |            | 3 Unshld<br>16 (19x28) | Black,<br>Red,<br>Yellow  |       |         |      |      | .013 | .33 |      |     |      |      | 30 | 98 | 54 | 177 |
|                                                                                                               |             |            |                        |                           |       |         |      |      |      |     |      |     |      |      |    |    |    |     |

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to ground.

## Unshielded

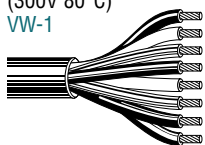
### Antenna Rotor Control Cables and Duplex Primary Wire

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | AWG<br>(stranding) | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|--------------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               |                    | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

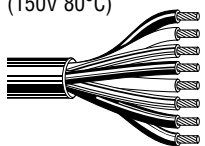
#### Antenna Rotor Cables Stranded Conductors • Tinned Copper • Conductors Cabled

##### PVC Insulation • Chrome PVC Jacket

|                                          |      |            |   |                                              |                 |      |       |      |      |      |     |      |     |      |      |
|------------------------------------------|------|------------|---|----------------------------------------------|-----------------|------|-------|------|------|------|-----|------|-----|------|------|
| UL AWM Style 2464<br>(300V 80°C)<br>VW-1 | 9405 | NEC:<br>CM | 8 | Black,<br>White                              | 2@16<br>(19x28) | 500  | 152.4 | 47.0 | 21.4 | .019 | .48 | .032 | .81 | .345 | 8.76 |
|                                          |      |            |   | Brown, Red<br>Yellow, Blue,<br>Orange, Green | 6@18<br>(16x30) | 1000 | 304.8 | 92.0 | 41.8 | .018 | .46 |      |     |      |      |



|                                  |      |                                |   |                                               |                 |        |         |      |      |      |     |      |     |      |      |
|----------------------------------|------|--------------------------------|---|-----------------------------------------------|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|
| UL AWM Style 2576<br>(150V 80°C) | 8448 | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 8 | Black,<br>White                               | 2@18<br>(16x30) | U-500  | U-152.4 | 25.0 | 11.4 | .019 | .48 | .032 | .81 | .259 | 6.58 |
|                                  |      |                                |   | Red, Green,<br>Brown, Blue,<br>Yellow, Orange | 6@22<br>(7x30)  | 500    | 152.4   | 25.5 | 11.6 |      |     |      |     |      |      |
|                                  |      |                                |   |                                               |                 | U-1000 | U-304.8 | 49.0 | 22.3 | .010 | .25 |      |     |      |      |
|                                  |      |                                |   |                                               |                 | 1000   | 304.8   | 50.0 | 22.7 |      |     |      |     |      |      |



#### Duplex Primary Wire Stranded Conductors • Bare Copper • Conductors Parallel

##### PVC Insulation • Chrome PVC Jacket

|                       |      |   |               |               |     |       |      |      |      |     |      |     |           |            |
|-----------------------|------|---|---------------|---------------|-----|-------|------|------|------|-----|------|-----|-----------|------------|
| 300V RMS 75°C<br>VW-1 | 8677 | 2 | Brown,<br>Red | 16<br>(19x29) | 500 | 152.4 | 18.5 | 8.4  | .024 | .61 | .022 | .56 | .149      | 3.78       |
|                       |      |   |               |               |     |       |      |      |      |     |      |     | x<br>.254 | x<br>6.45  |
|                       | 8675 | 2 | Brown,<br>Red | 14<br>(19x27) | 500 | 152.4 | 24.0 | 10.9 | .023 | .58 | .023 | .58 | .168      | 4.27       |
|                       |      |   |               |               |     |       |      |      |      |     |      |     | x<br>.290 | x<br>7.37  |
|                       | 8673 | 2 | Brown,<br>Red | 12<br>(19x25) | 500 | 152.4 | 32.5 | 14.8 | .026 | .65 | .022 | .56 | .186      | 4.72       |
|                       |      |   |               |               |     |       |      |      |      |     |      |     | x<br>.328 | x<br>8.33  |
|                       | 8678 | 2 | Brown,<br>Red | 10<br>(19x23) | 500 | 152.4 | 50.5 | 23.0 | .031 | .77 | .025 | .64 | .225      | 5.72       |
|                       |      |   |               |               |     |       |      |      |      |     |      |     | x<br>.400 | x<br>10.16 |



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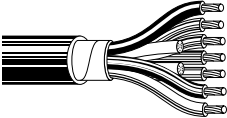
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1-800-527-0010

## Unshielded

Power and Control Cables

Rubber and Oil Resistant Rubber SO Cables

| Description                                                                                              | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code                            | Standard Lengths |       | Standard<br>Unit Weight |       | Insulation<br>Thickness |      | Jacket<br>Thickness |      | Nominal OD |       |
|----------------------------------------------------------------------------------------------------------|----------|------------------------------|--------------------|------------------------------------------|------------------|-------|-------------------------|-------|-------------------------|------|---------------------|------|------------|-------|
|                                                                                                          |          |                              |                    |                                          | Ft.              | m     | Lbs.                    | kg    | Inch                    | mm   | Inch                | mm   | Inch       | mm    |
| 16 AWG Stranded Conductors (65x34) • Bare Copper • Conductors Cabled with Fillers • Paper Tape Separator |          |                              |                    |                                          |                  |       |                         |       |                         |      |                     |      |            |       |
| Rubber Insulation • Black Oil-resistant Rubber Jacket                                                    |          |                              |                    |                                          |                  |       |                         |       |                         |      |                     |      |            |       |
|                         | 9420     | UL:                          | 5                  | See<br>Chart 2<br>(Tech Info<br>Section) | 100              | 30.5  | 14.9                    | 6.8   | .033                    | .838 | .084                | 2.13 | .506       | 12.85 |
|                                                                                                          |          | SO                           |                    |                                          | 500              | 152.4 | 73.5                    | 33.4  |                         |      |                     |      |            |       |
|                                                                                                          |          | CSA:<br>SO                   |                    |                                          | 1000             | 304.8 | 143.0                   | 65.0  |                         |      |                     |      |            |       |
|                                                                                                          | 9422     | UL:                          | 7                  | See<br>Chart 2<br>(Tech Info<br>Section) | 100              | 30.5  | 20.3                    | 9.2   | .033                    | .838 | .083                | 2.11 | .581       | 14.76 |
|                                                                                                          |          | SO                           |                    |                                          | 500              | 152.4 | 101.0                   | 45.9  |                         |      |                     |      |            |       |
|                                                                                                          |          | CSA:<br>SO                   |                    |                                          | 1000             | 304.8 | 201.0                   | 91.4  |                         |      |                     |      |            |       |
|                                                                                                          | 9424     | UL:                          | 9                  | See<br>Chart 2<br>(Tech Info<br>Section) | 100              | 30.5  | 28.6                    | 13.0  | .033                    | .838 | .100                | 2.54 | .720       | 18.29 |
|                                                                                                          |          | SO                           |                    |                                          | 500              | 152.4 | 150.5                   | 68.4  |                         |      |                     |      |            |       |
|                                                                                                          |          | CSA:<br>SO                   |                    |                                          | 1000             | 304.8 | 288.0                   | 130.9 |                         |      |                     |      |            |       |
|                                                                                                          | 9425     | UL:                          | 12                 | See<br>Chart 2<br>(Tech Info<br>Section) | 100              | 30.5  | 31.6                    | 14.4  | .033                    | .838 | .100                | 2.54 | .720       | 18.29 |
|                                                                                                          |          | SO                           |                    |                                          | 500              | 152.4 | 165.5                   | 75.2  |                         |      |                     |      |            |       |
|                                                                                                          |          | CSA:<br>SO                   |                    |                                          | 1000             | 304.8 | 318.0                   | 144.5 |                         |      |                     |      |            |       |
|                                                                                                          | 9427     | UL:                          | 16                 | See<br>Chart 2<br>(Tech Info<br>Section) | 100              | 30.5  | 41.2                    | 18.7  | .033                    | .838 | .100                | 2.54 | .787       | 19.99 |
|                                                                                                          |          | SO                           |                    |                                          | 1000             | 304.8 | 428.0                   | 194.5 |                         |      |                     |      |            |       |
|                                                                                                          |          | CSA:<br>SO                   |                    |                                          |                  |       |                         |       |                         |      |                     |      |            |       |
|                                                                                                          | 9429     | UL:                          | 20                 | See<br>Chart 2<br>(Tech Info<br>Section) | 100              | 30.5  | 48.4                    | 22.0  | .033                    | .838 | .100                | 2.54 | .862       | 21.89 |
|                                                                                                          |          | SO                           |                    |                                          | 500              | 152.4 | 233.0                   | 105.9 |                         |      |                     |      |            |       |
|                                                                                                          |          | CSA:<br>SO                   |                    |                                          |                  |       |                         |       |                         |      |                     |      |            |       |



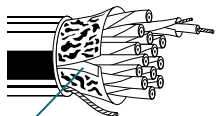
## Overall Beldfoil® Shield

Computer Cables for Synchronous EIA Interface

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard Lengths |   | Standard<br>Unit Weight |    | Nominal OD |    | Nominal DCR |        | Nom.<br>Imped.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|------------------|---|-------------------------|----|------------|----|-------------|--------|-----------------------|-----------------------------|---------------------|---------------|------------------|----------------|
|             |          |                              |                    | Ft.              | m | Lbs.                    | kg | Inch       | mm | Cond.       | Shield |                       |                             | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**28 AWG** Stranded (7x36) • Tinned Copper • Individually and Overall Beldfoil Shielded • 28 AWG Stranded TC Drain Wires

| Datalene® Insulation • Gray PVC Jacket |             |            |    |      |       |      |      |      |       |                       |                                                                          |    |     |   |   |      |      |
|----------------------------------------|-------------|------------|----|------|-------|------|------|------|-------|-----------------------|--------------------------------------------------------------------------|----|-----|---|---|------|------|
| UL AWM Style 2384<br>(30V 60°C)        | <b>9868</b> | NEC:<br>CM | 14 | 1000 | 304.8 | 71.0 | 32.4 | .394 | 10.01 | 64.9Ω/M'<br>212.9Ω/km | Individual:<br>44.0Ω/M'<br>144.4Ω/km<br>Overall:<br>18.2Ω/M'<br>59.7Ω/km | 65 | 78% | — | — | 20.5 | 67.3 |



Z-Fold®

Individually Beldfoil shielded conductors are isolated from adjacent shields and each has a 28 AWG stranded drain wire.

DCR = DC Resistance • TC = Tinned Copper

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.



By:



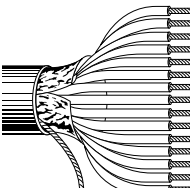
**INTERSTATE WIRE CO.**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

**Overall Beldfoil® Shield**

Computer Cables for EIA RS-232 Applications

| Description                                                                                                               | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Cond.                           | Color<br>Code                            | Standard Lengths |         | Standard<br>Unit Weight |      | Insulation<br>Thickness |      | Jacket<br>Thickness |      | Nominal OD |      | Nominal Capacitance |          |            |          |  |
|---------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|-------------------------------------------|------------------------------------------|------------------|---------|-------------------------|------|-------------------------|------|---------------------|------|------------|------|---------------------|----------|------------|----------|--|
|                                                                                                                           |          |                              |                                           |                                          | Ft.              | m       | Lbs.                    | kg   | Inch                    | mm   | Inch                | mm   | Inch       | mm   | pF/<br>Ft.          | pF/<br>m | pF/<br>Ft. | pF/<br>m |  |
| 24 AWG Stranded (7x32) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire |          |                              |                                           |                                          |                  |         |                         |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| Semi-rigid PVC Insulation • Chrome PVC Jacket                                                                             |          |                              |                                           |                                          |                  |         |                         |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                          | 9533     | NEC:                         | 3                                         | See<br>Chart 1<br>(Tech Info<br>Section) | 100              | 30.5    | 2.7                     | 1.2  | .010                    | .25  | .032                | .81  | .162       | 4.11 | 33                  | 108      | 65         | 213      |  |
|                                                                                                                           |          | CMG                          |                                           |                                          | U-500            | U-152.4 | 9.0                     | 4.1  |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          | CEC:                         |                                           |                                          | 500              | 152.4   | 9.0                     | 4.1  |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          | CMG FT4                      |                                           |                                          | U-1000           | U-304.8 | 17.0                    | 7.7  |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           |                                          | 1000             | 304.8   | 18.0                    | 8.2  |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | 9534     | NEC:                         | 4                                         | See<br>Chart 1<br>(Tech Info<br>Section) | 100              | 30.5    | 3.0                     | 1.4  | .010                    | .25  | .032                | .81  | .184       | 4.67 | 33                  | 108      | 65         | 213      |  |
|                                                                                                                           |          | CMG                          |                                           |                                          | U-500            | U-152.4 | 11.0                    | 5.0  |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          | CEC:                         |                                           |                                          | 500              | 152.4   | 11.5                    | 5.2  |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          | CMG FT4                      |                                           |                                          | U-1000           | U-304.8 | 21.0                    | 9.5  |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           |                                          | 1000             | 304.8   | 22.0                    | 10.0 |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9535                                                                                                                      | NEC:     | 5                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 3.2     | 1.5                     | .010 | .25                     | .032 | .81                 | .189 | 4.80       | 33   | 108                 | 65       | 213        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 12.0    | 5.5                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 12.5    | 5.7                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | U-1000                                   | U-304.8          | 23.0    | 10.5                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           | 1000                                     | 304.8            | 24.0    | 10.9                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9536                                                                                                                      | NEC:     | 6                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 3.6     | 1.6                     | .010 | .25                     | .032 | .81                 | .209 | 5.31       | 33   | 108                 | 65       | 213        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 14.5    | 6.6                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 14.5    | 6.6                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | U-1000                                   | U-304.8          | 28.0    | 12.7                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           | 1000                                     | 304.8            | 28.0    | 12.7                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9537                                                                                                                      | NEC:     | 7                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 3.8     | 1.7                     | .010 | .25                     | .032 | .81                 | .209 | 5.31       | 33   | 108                 | 65       | 213        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 15.0    | 6.8                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 15.5    | 7.0                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | U-1000                                   | U-304.8          | 30.0    | 13.6                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           | 1000                                     | 304.8            | 30.0    | 13.6                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9538                                                                                                                      | NEC:     | 8                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 4.3     | 2.0                     | .010 | .25                     | .032 | .81                 | .224 | 5.69       | 33   | 108                 | 65       | 213        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 17.0    | 7.7                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 17.0    | 7.7                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | U-1000                                   | U-304.8          | 33.0    | 15.0                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           | 1000                                     | 304.8            | 33.0    | 15.0                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9539                                                                                                                      | NEC:     | 9                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 5.0     | 2.3                     | .010 | .25                     | .032 | .81                 | .244 | 6.20       | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 20.0    | 9.1                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 20.5    | 9.3                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | U-1000                                   | U-304.8          | 40.0    | 18.2                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           | 1000                                     | 304.8            | 40.0    | 18.2                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9540                                                                                                                      | NEC:     | 10                           | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 4.9     | 2.2                     | .010 | .25                     | .032 | .81                 | .244 | 6.19       | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 19.5    | 8.9                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 20.0    | 9.1                     |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | U-1000                                   | U-304.8          | 39.0    | 17.7                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           | 1000                                     | 304.8            | 42.0    | 19.1                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9541                                                                                                                      | NEC:     | 15                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 6.4     | 2.9                     | .010 | .25                     | .032 | .81                 | .284 | 7.21       | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 27.0    | 12.3                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 27.0    | 12.3                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | U-1000                                   | U-304.8          | 53.0    | 24.1                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           |          |                              |                                           | 1000                                     | 304.8            | 53.0    | 24.1                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9542                                                                                                                      | NEC:     | 20                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 7.2     | 3.3                     | .010 | .25                     | .032 | .81                 | .314 | 7.98       | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | U-500                                    | U-152.4          | 34.5    | 15.7                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 500                                      | 152.4            | 34.0    | 15.5                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           | 1000                                     | 304.8            | 69.0    | 31.4                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9543                                                                                                                      | NEC:     | 25                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 8.7     | 4.0                     | .010 | .25                     | .032 | .81                 | .339 | 8.61       | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | 500                                      | 152.4            | 44.0    | 20.0                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 1000                                     | 304.8            | 86.0    | 39.1                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           |                                          |                  |         |                         |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9544                                                                                                                      | NEC:     | 30                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 10.3    | 4.7                     | .010 | .25                     | .040 | 1.02                | .380 | 9.65       | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | 500                                      | 152.4            | 51.5    | 23.4                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 1000                                     | 304.8            | 102.0   | 46.4                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           |                                          |                  |         |                         |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9545                                                                                                                      | NEC:     | 40                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 13.6    | 6.2                     | .010 | .25                     | .040 | 1.02                | .430 | 10.92      | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | 500                                      | 152.4            | 65.0    | 29.5                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 1000                                     | 304.8            | 130.0   | 59.1                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           |                                          |                  |         |                         |      |                         |      |                     |      |            |      |                     |          |            |          |  |
| 9546                                                                                                                      | NEC:     | 50                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 16.5    | 7.5                     | .010 | .25                     | .045 | 1.14                | .490 | 12.45      | 30   | 98                  | 55       | 180        |          |  |
|                                                                                                                           | CMG      |                              |                                           | 500                                      | 152.4            | 81.5    | 37.0                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CEC:     |                              |                                           | 1000                                     | 304.8            | 168.0   | 76.4                    |      |                         |      |                     |      |            |      |                     |          |            |          |  |
|                                                                                                                           | CMG FT4  |                              |                                           |                                          |                  |         |                         |      |                         |      |                     |      |            |      |                     |          |            |          |  |

TC = Tinned Copper

\*Capacitance between conductors. \*\*Capacitance between one conductor and other conductors connected to shield.

**Overall Beldfoil® Shield**

Audio, Control and Instrumentation Cables

Non-Plenum

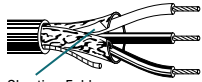
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG** Stranded (7x30) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire**Polypropylene Insulation • Brown PVC Jacket**

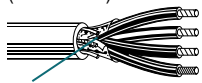
|          |             |            |   |                         |                                |                                      |                            |                          |             |      |     |      |      |    |     |    |     |
|----------|-------------|------------|---|-------------------------|--------------------------------|--------------------------------------|----------------------------|--------------------------|-------------|------|-----|------|------|----|-----|----|-----|
| 300V RMS | <b>9770</b> | NEC:<br>CM | 3 | Black,<br>Red,<br>White | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 9.0<br>9.0<br>17.0<br>17.0 | 4.1<br>4.1<br>7.7<br>7.7 | .008<br>.20 | .020 | .51 | .145 | 3.68 | 32 | 105 | 60 | 197 |
|----------|-------------|------------|---|-------------------------|--------------------------------|--------------------------------------|----------------------------|--------------------------|-------------|------|-----|------|------|----|-----|----|-----|

**Polyethylene Insulation • Chrome PVC Jacket**

|                                  |             |            |   |                         |                                                |                                                        |                                              |                                            |             |      |     |      |      |    |    |    |     |
|----------------------------------|-------------|------------|---|-------------------------|------------------------------------------------|--------------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------|------|-----|------|------|----|----|----|-----|
| UL AWM Style 2093<br>(300V 60°C) | <b>8771</b> | NEC:<br>CM | 3 | Black,<br>Red,<br>Clear | 250<br>U-500<br>500<br>U-1000<br>1000<br>10000 | 76.2<br>U-152.4<br>152.4<br>U-304.8<br>304.8<br>3048.0 | 6.3<br>12.0<br>12.0<br>24.0<br>24.0<br>240.0 | 2.8<br>5.5<br>5.5<br>10.9<br>10.9<br>109.1 | .016<br>.41 | .033 | .84 | .199 | 5.05 | 23 | 75 | 41 | 134 |
|----------------------------------|-------------|------------|---|-------------------------|------------------------------------------------|--------------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------|------|-----|------|------|----|----|----|-----|

**22 AWG** Stranded (19x34) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 23 and 25 AWG Drain Wires†**Polyethylene Insulation • White PVC Jacket**

|                                  |             |                 |   |                                   |                                |                                      |                              |                              |             |      |      |      |      |    |    |    |     |
|----------------------------------|-------------|-----------------|---|-----------------------------------|--------------------------------|--------------------------------------|------------------------------|------------------------------|-------------|------|------|------|------|----|----|----|-----|
| UL AWM Style 2094<br>(300V 75°C) | <b>8729</b> | NEC:<br>CM, CL3 | 4 | Black,<br>Red,<br>Green,<br>Clear | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 23.5<br>23.5<br>46.0<br>47.0 | 10.7<br>10.7<br>20.9<br>21.4 | .016<br>.41 | .051 | 1.30 | .257 | 6.53 | 22 | 72 | 42 | 138 |
|----------------------------------|-------------|-----------------|---|-----------------------------------|--------------------------------|--------------------------------------|------------------------------|------------------------------|-------------|------|------|------|------|----|----|----|-----|



† 8729 has three 23 AWG solid and one 25 AWG stranded tinned copper-coated steel drain wires.

**20 AWG** Stranded (7x28) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**Polyethylene Insulation • Chrome PVC Jacket**

|                                  |             |            |   |                         |                                |                                      |                              |                            |             |      |     |      |      |    |    |    |     |
|----------------------------------|-------------|------------|---|-------------------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|-------------|------|-----|------|------|----|----|----|-----|
| UL AWM Style 2093<br>(300V 60°C) | <b>8772</b> | NEC:<br>CM | 3 | Black,<br>Red,<br>Clear | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 16.0<br>16.0<br>31.0<br>31.0 | 7.3<br>7.3<br>14.1<br>14.1 | .016<br>.41 | .033 | .84 | .218 | 5.54 | 27 | 89 | 51 | 167 |
|----------------------------------|-------------|------------|---|-------------------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|-------------|------|-----|------|------|----|----|----|-----|



TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to ground.



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**Overall Beldfoil® Shield**

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**18 AWG** Stranded (16x30) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Chrome PVC Jacket**

|                                  |             |            |   |                |        |         |       |       |      |     |      |     |      |      |    |    |    |     |
|----------------------------------|-------------|------------|---|----------------|--------|---------|-------|-------|------|-----|------|-----|------|------|----|----|----|-----|
| UL AWM Style 2093<br>(300V 60°C) | <b>8770</b> | NEC:<br>CM | 3 | Black,<br>Red, | U-500  | U-152.4 | 20.0  | 9.1   | .018 | .46 | .033 | .84 | .246 | 6.25 | 24 | 79 | 48 | 157 |
|                                  |             | CEC:<br>CM |   | Clear          | U-1000 | U-304.8 | 39.0  | 17.7  |      |     |      |     |      |      |    |    |    |     |
|                                  |             |            |   |                | 1000   | 304.8   | 40.0  | 18.2  |      |     |      |     |      |      |    |    |    |     |
|                                  |             |            |   |                | 10000  | 3048.0  | 430.0 | 195.5 |      |     |      |     |      |      |    |    |    |     |



Shorting Fold

For Plenum version of 8770,  
see 8770.

**18 AWG** Stranded (19x30) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire

**Semi-rigid PVC Insulation • Chrome PVC Jacket**

|                                  |             |                 |   |                 |        |         |       |       |      |     |      |     |      |      |    |     |     |     |
|----------------------------------|-------------|-----------------|---|-----------------|--------|---------|-------|-------|------|-----|------|-----|------|------|----|-----|-----|-----|
| UL AWM Style 2464<br>(300V 80°C) | <b>9418</b> | NEC:<br>CMG     | 4 | Red,<br>Green,  | 100    | 30.5    | 5.9   | 2.7   | .010 | .25 | .035 | .89 | .245 | 6.22 | 70 | 230 | 120 | 394 |
|                                  |             | CEC:<br>CMG FT4 |   | Black,<br>White | U-500  | U-152.4 | 25.0  | 11.4  |      |     |      |     |      |      |    |     |     |     |
|                                  |             |                 |   |                 | 500    | 152.4   | 25.5  | 11.6  |      |     |      |     |      |      |    |     |     |     |
|                                  |             |                 |   |                 | U-1000 | U-304.8 | 50.0  | 22.7  |      |     |      |     |      |      |    |     |     |     |
|                                  |             |                 |   |                 | 1000   | 304.8   | 50.0  | 22.7  |      |     |      |     |      |      |    |     |     |     |
|                                  |             |                 |   |                 | 10000  | 3048.0  | 530.0 | 240.9 |      |     |      |     |      |      |    |     |     |     |



Z-Fold®

For Plenum versions of 9418,  
see 89418 or 82418.

**Plenum • FEP Insulation • Red FEP Jacket**

|             |              |                 |   |                         |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------|--------------|-----------------|---|-------------------------|-------|-------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| Non-conduit | <b>88770</b> | NEC:<br>CMP     | 3 | Black,<br>White,<br>Red | 500†  | 152.4 | 18.0 | 8.2  | .007 | .18 | .014 | .36 | .161 | 4.09 | 54 | 177 | 96 | 315 |
|             | <b>new</b>   | CEC:<br>CMP FT6 |   |                         | 1000† | 304.8 | 34.0 | 15.5 |      |     |      |     |      |      |    |     |    |     |



Suitable for Outdoor and Direct Burial applications.

|             |              |                 |   |                                   |       |       |      |      |      |     |      |     |      |      |    |    |    |     |
|-------------|--------------|-----------------|---|-----------------------------------|-------|-------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| Non-conduit | <b>89418</b> | NEC:<br>CMP     | 4 | Black,<br>White,<br>Red,<br>Green | 100   | 30.5  | 5.5  | 2.5  | .007 | .18 | .014 | .36 | .177 | 4.50 | 30 | 98 | 57 | 187 |
|             |              | CEC:<br>CMP FT6 |   |                                   | 500†  | 152.4 | 20.0 | 9.1  |      |     |      |     |      |      |    |    |    |     |
|             |              |                 |   |                                   | 1000† | 304.8 | 41.0 | 18.6 |      |     |      |     |      |      |    |    |    |     |



Suitable for Outdoor and Direct Burial applications.

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

|             |              |                 |   |                                   |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------|--------------|-----------------|---|-----------------------------------|---------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| Non-conduit | <b>82418</b> | NEC:<br>CMP     | 4 | Black,<br>White,<br>Red,<br>Green | U-1000† | U-304.8 | 35.0 | 15.9 | .007 | .18 | .014 | .36 | .176 | 4.47 | 35 | 115 | 63 | 207 |
|             |              | CEC:<br>CMP FT6 |   |                                   | 1000†   | 304.8   | 39.0 | 17.7 |      |     |      |     |      |      |    |     |    |     |



**16 AWG** Stranded (19x29) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 18 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Chrome PVC Jacket**

|                                  |             |             |   |                         |       |         |      |      |      |     |      |     |      |     |    |    |    |     |
|----------------------------------|-------------|-------------|---|-------------------------|-------|---------|------|------|------|-----|------|-----|------|-----|----|----|----|-----|
| UL AWM Style 2107<br>(600V 60°C) | <b>8618</b> | NEC:<br>CL3 | 3 | Black,<br>Red,<br>Clear | U-500 | U-152.4 | 32.0 | 14.5 | .031 | .73 | .031 | .79 | .327 | 8.3 | 26 | 85 | 50 | 164 |
|                                  |             |             |   |                         | 500   | 152.4   | 32.0 | 14.5 |      |     |      |     |      |     |    |    |    |     |
|                                  |             |             |   |                         | 1000  | 304.8   | 67.0 | 30.5 |      |     |      |     |      |     |    |    |    |     |



Z-Fold®

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

†Spools and/or UnReel® cartons are one piece, but length may vary ± 10% for spools and ± 5% for UnReel from length shown.

## Overall Braid and Special Shielding

Audio, Control and Instrumentation Cables

Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**30 AWG** Stranded Conductors (7x38) • Tinned Copper • Conductors Cabled • Paper Separator • 95% Tinned Copper Braid Shield

### Polypropylene Insulation • Chrome PVC Jacket

|                |             |  |   |                         |            |              |            |           |             |             |              |          |           |
|----------------|-------------|--|---|-------------------------|------------|--------------|------------|-----------|-------------|-------------|--------------|----------|-----------|
| 200V RMS 105°C | <b>8643</b> |  | 3 | Black,<br>Red,<br>White | 100<br>250 | 30.5<br>76.2 | 1.1<br>3.0 | .5<br>1.4 | .006<br>.15 | .014<br>.36 | .096<br>2.44 | 25<br>82 | 43<br>141 |
|----------------|-------------|--|---|-------------------------|------------|--------------|------------|-----------|-------------|-------------|--------------|----------|-----------|



Conductors cabled around textile strength member.

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled • 70% Tinned Copper Braid Shield

### PVC Insulation • Chrome PVC Jacket

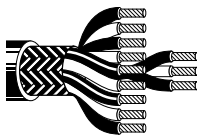
|                                  |             |                                |   |                         |                       |                           |                      |                     |             |             |              |           |           |
|----------------------------------|-------------|--------------------------------|---|-------------------------|-----------------------|---------------------------|----------------------|---------------------|-------------|-------------|--------------|-----------|-----------|
| UL AWM Style 2095<br>(300V 80°C) | <b>8735</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 3 | Black,<br>Red,<br>White | 500<br>U-1000<br>1000 | 152.4<br>U-304.8<br>304.8 | 14.5<br>27.0<br>27.0 | 6.6<br>12.3<br>12.3 | .015<br>.38 | .025<br>.64 | .202<br>5.13 | 34<br>112 | 60<br>197 |
|----------------------------------|-------------|--------------------------------|---|-------------------------|-----------------------|---------------------------|----------------------|---------------------|-------------|-------------|--------------|-----------|-----------|



**20 AWG** Stranded Conductors (7x28) • Tinned Copper • 85% Tinned Copper Braid Shield

### PVC Insulation • Chrome PVC Jacket

|                                  |             |                                |    |                                           |                    |                        |                       |                     |             |              |               |          |           |
|----------------------------------|-------------|--------------------------------|----|-------------------------------------------|--------------------|------------------------|-----------------------|---------------------|-------------|--------------|---------------|----------|-----------|
| UL AWM Style 2464<br>(300V 80°C) | <b>9260</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 6  | See<br>Chart 2<br>(Tech Info<br>Section)  | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 7.3<br>34.5<br>69.0   | 3.3<br>15.7<br>31.4 | .016<br>.41 | .032<br>.81  | .305<br>7.75  | 26<br>85 | 50<br>164 |
|                                  | <b>9261</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 12 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 12.0<br>60.0<br>119.0 | 5.5<br>27.3<br>54.1 | .016<br>.41 | .040<br>1.02 | .396<br>10.06 | 26<br>85 | 57<br>187 |



**Combination Shielded/Unshielded • 22 AWG** Stranded (7x30) • Tinned Copper • Conductors Cabled • 80% Tinned Copper Braid Shield†

### PVC Insulation • Chrome PVC Jacket

|                                  |             |            |                          |                         |                |                  |              |              |             |             |              |        |           |
|----------------------------------|-------------|------------|--------------------------|-------------------------|----------------|------------------|--------------|--------------|-------------|-------------|--------------|--------|-----------|
| UL AWM Style 2785<br>(300V 80°C) | <b>8734</b> | NEC:<br>CM | 3:<br>1 Shld<br>2 Unshld | Black,<br>Red,<br>White | U-1000<br>1000 | U-304.8<br>304.8 | 23.0<br>23.0 | 10.5<br>10.5 | .015<br>.38 | .025<br>.64 | .194<br>4.93 | —<br>— | 79<br>259 |
|----------------------------------|-------------|------------|--------------------------|-------------------------|----------------|------------------|--------------|--------------|-------------|-------------|--------------|--------|-----------|

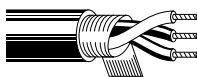


†Tinned copper braid shield over one conductor (80% coverage).

**Overall Spiral Shield • 18 AWG** Stranded (7x26) • Tinned Copper • Conductors Cabled • Tinned Copper Spiral Wrap (80% Coverage)

### PVC Insulation • Chrome PVC Jacket

|                       |             |  |   |                         |                       |                           |                      |                      |             |             |              |           |           |
|-----------------------|-------------|--|---|-------------------------|-----------------------|---------------------------|----------------------|----------------------|-------------|-------------|--------------|-----------|-----------|
| 450V RMS 80°C<br>VW-1 | <b>8791</b> |  | 3 | Black,<br>Red,<br>White | 500<br>U-1000<br>1000 | 152.4<br>U-304.8<br>304.8 | 23.0<br>45.0<br>46.0 | 10.5<br>20.5<br>20.9 | .022<br>.56 | .028<br>.71 | .260<br>6.60 | 47<br>154 | 84<br>276 |
|-----------------------|-------------|--|---|-------------------------|-----------------------|---------------------------|----------------------|----------------------|-------------|-------------|--------------|-----------|-----------|



\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to ground.



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1-800-527-0010

## Overall Braid Shield

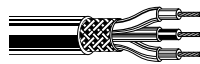
MIL-W-16878 (Type B) Conductors, Shielded and Jacketed<sup>†</sup>  
Communication and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

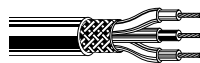
**22 AWG** Stranded Conductors (19x34) • .003" (.76mm) Clear Nylon Skin over Insulation • 90% Tinned Copper Braid Shield

| PVC Insulation • White PVC Jacket                                                 |                        |             |                 |                                   |                    |                        |                     |                    |      |     |      |     |      |      |    |     |     |     |
|-----------------------------------------------------------------------------------|------------------------|-------------|-----------------|-----------------------------------|--------------------|------------------------|---------------------|--------------------|------|-----|------|-----|------|------|----|-----|-----|-----|
|  | 600V RMS 105°C<br>VW-1 | <b>9965</b> | 1               | White                             | 1000               | 304.8                  | 10.0                | 4.5                | .010 | .25 | .010 | .25 | .100 | 2.54 | —  | —   | 100 | 328 |
|                                                                                   |                        | <b>9966</b> | 2               | White,<br>Black                   | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 2.8<br>10.5<br>21.0 | 1.3<br>4.8<br>9.6  | .010 | .25 | .020 | .51 | .176 | 4.47 | 52 | 171 | 87  | 285 |
|                                                                                   |                        | <b>9967</b> | 3 <sup>††</sup> | White,<br>Black,<br>Red           | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 3.5<br>13.0<br>26.0 | 1.6<br>5.9<br>11.8 | .010 | .25 | .020 | .51 | .184 | 4.67 | 45 | 148 | 88  | 289 |
|                                                                                   |                        | <b>9968</b> | 4 <sup>††</sup> | White,<br>Black,<br>Red,<br>Green | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 3.9<br>16.0<br>31.0 | 1.8<br>7.3<br>14.1 | .010 | .25 | .020 | .51 | .200 | 5.08 | 42 | 138 | 69  | 226 |

**20 AWG** Stranded Conductors (19x32) • Tinned Copper • .004" (.10mm) Clear Nylon Skin over Insulation • 90% Tinned Copper Braid Shield

| PVC Insulation • White PVC Jacket                                                 |                        |             |                 |                                   |                    |                        |                     |                    |      |     |      |     |      |      |    |     |     |     |
|-----------------------------------------------------------------------------------|------------------------|-------------|-----------------|-----------------------------------|--------------------|------------------------|---------------------|--------------------|------|-----|------|-----|------|------|----|-----|-----|-----|
|  | 600V RMS 105°C<br>VW-1 | <b>9961</b> | 1               | White                             | 500<br>1000        | 152.4<br>304.8         | 5.0<br>9.0          | 2.3<br>4.1         | .011 | .27 | .010 | .25 | .109 | 2.77 | —  | —   | 103 | 338 |
|                                                                                   |                        | <b>9962</b> | 2 <sup>††</sup> | White,<br>Black                   | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 3.3<br>12.5<br>24.0 | 1.5<br>5.7<br>10.9 | .011 | .27 | .020 | .51 | .192 | 4.88 | 53 | 174 | 91  | 299 |
|                                                                                   |                        | <b>9963</b> | 3 <sup>††</sup> | White,<br>Black,<br>Red           | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 3.9<br>16.0<br>31.0 | 1.8<br>7.3<br>14.1 | .011 | .27 | .025 | .64 | .210 | 5.33 | 49 | 161 | 84  | 276 |
|                                                                                   |                        | <b>9964</b> | 4               | White,<br>Black,<br>Red,<br>Green | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 4.6<br>19.5<br>38.0 | 2.1<br>8.9<br>17.3 | .011 | .27 | .025 | .64 | .226 | 5.74 | 45 | 148 | 76  | 249 |

**16 AWG** Stranded Conductors (19x29) • Tinned Copper • .004" (.10mm) Clear Nylon Skin over Insulation • 90% Tinned Copper Braid Shield

| PVC Insulation • White PVC Jacket                                                   |                        |             |                 |                                   |                    |                        |                     |                     |      |     |      |     |      |      |    |     |     |     |
|-------------------------------------------------------------------------------------|------------------------|-------------|-----------------|-----------------------------------|--------------------|------------------------|---------------------|---------------------|------|-----|------|-----|------|------|----|-----|-----|-----|
|  | 600V RMS 105°C<br>VW-1 | <b>9951</b> | 1               | White                             | 1000               | 304.8                  | 22.0                | 10.0                | .012 | .30 | .016 | .41 | .143 | 3.63 | —  | —   | 138 | 453 |
|                                                                                     |                        | <b>9952</b> | 2 <sup>††</sup> | White,<br>Black                   | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 5.1<br>20.5<br>42.0 | 2.3<br>9.3<br>19.1  | .012 | .30 | .025 | .64 | .250 | 6.35 | 57 | 187 | 95  | 312 |
|                                                                                     |                        | <b>9953</b> | 3 <sup>††</sup> | White,<br>Black,<br>Red           | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 6.5<br>28.0<br>56.0 | 3.0<br>12.7<br>25.5 | .012 | .30 | .025 | .64 | .264 | 6.71 | 58 | 190 | 101 | 331 |
|                                                                                     |                        | <b>9954</b> | 4 <sup>††</sup> | White,<br>Black,<br>Red,<br>Green | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 7.9<br>34.5<br>68.0 | 3.6<br>15.7<br>30.9 | .012 | .30 | .027 | .69 | .291 | 7.39 | 49 | 161 | 94  | 308 |

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup> Manufactured to Government specifications: MIL-W-16878 Rev. D.

<sup>††</sup> Conductors cabled.

## Overall Foil/Braid Shield

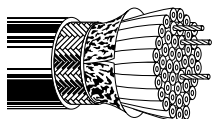
Computer Cables for EIA RS-232 Applications and IEEE 488 Interface,  
Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Nominal OD |    | Nominal DCR |        | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|------------|----|-------------|--------|-----------------------------|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch       | mm | Cond.       | Shield |                             | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**28 AWG** Stranded Conductors (7x36) • Tinned Copper • Overall Beldfoil® + 65% Tinned Copper Braid Shield

### Semi-rigid PVC Insulation • Chrome PVC Jacket

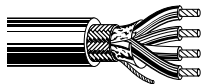
|                                  |             |             |    |                                           |      |       |      |      |      |      |           |          |   |    |    |    |     |
|----------------------------------|-------------|-------------|----|-------------------------------------------|------|-------|------|------|------|------|-----------|----------|---|----|----|----|-----|
| UL AWM Style 2464<br>(300V 80°C) | <b>9637</b> | NEC:<br>CL2 | 25 | See<br>Chart 2R<br>(Tech Info<br>Section) | 100  | 30.5  | 6.2  | 2.8  | .305 | 7.75 | 64.9Ω/M'  | 4.5Ω/M'  | — | 30 | 98 | 50 | 164 |
| CSA AWM I B FT4                  |             |             |    |                                           | 500  | 152.4 | 29.0 | 13.2 |      |      | 212.9Ω/km | 14.8Ω/km |   |    |    |    |     |
|                                  |             |             |    |                                           | 1000 | 304.8 | 59.0 | 26.8 |      |      |           |          |   |    |    |    |     |



**Low Capacitance • 28 AWG** Stranded (7x36) • Tinned Copper • Overall Beldfoil + 65% TC Braid Shield • 28 AWG Stranded TC Drain Wire

### Datalene® Insulation • Chrome PVC Jacket

|                                 |             |             |   |                                          |      |       |      |      |      |      |           |          |     |    |      |    |      |
|---------------------------------|-------------|-------------|---|------------------------------------------|------|-------|------|------|------|------|-----------|----------|-----|----|------|----|------|
| UL AWM Style 2919<br>(30V 80°C) | <b>9791</b> | NEC:<br>CL2 | 6 | See<br>Chart 1<br>(Tech Info<br>Section) | 500  | 152.4 | 16.0 | 7.3  | .225 | 5.72 | 64.9Ω/M'  | 6.15Ω/M' | 78% | 12 | 39.4 | 22 | 72.2 |
|                                 |             |             |   |                                          | 1000 | 304.8 | 27.0 | 12.3 |      |      | 212.9Ω/km | 20.2Ω/km |     |    |      |    |      |



**IEEE 488 • 26 AWG and 24 AWG** Stranded Conductors (7x34 and 7x32) • Tinned Copper • Overall Foil + 90% TC Braid Shield • Drain Wire

### Semi-rigid PVC Insulation • Gray PVC Jacket

|                                  |             |                 |                         |                                          |      |       |      |      |      |      |                     |          |   |   |   |   |   |
|----------------------------------|-------------|-----------------|-------------------------|------------------------------------------|------|-------|------|------|------|------|---------------------|----------|---|---|---|---|---|
| UL AWM Style 2464<br>(300V 80°C) | <b>9641</b> | NEC:<br>CMG     | 23                      | See<br>Chart 1<br>(Tech Info<br>Section) | 1000 | 304.8 | 82.0 | 37.4 | .350 | 8.89 | 26 AWG:<br>37.3Ω/M' | 2.6Ω/M'  | — | — | — | — | — |
| CSA AWM I A                      |             | CEC:<br>CMG FT4 | (6)<br>26 AWG<br>Pairs  |                                          |      |       |      |      |      |      | 122.4Ω/km           | 8.5Ω/km  |   |   |   |   |   |
|                                  |             |                 | (10)<br>26 AWG<br>Cond. |                                          |      |       |      |      |      |      | 24 AWG:<br>23.3Ω/M' | 76.4Ω/km |   |   |   |   |   |
|                                  |             |                 | (1)<br>24 AWG<br>Cond.  |                                          |      |       |      |      |      |      |                     |          |   |   |   |   |   |

TC = Tinned Copper

\*Capacitance between conductors.

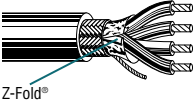
\*\*Capacitance between one conductor and other conductors connected to ground.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.



## Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

| Description                                                                                                                             | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |       | Standard<br>Unit Weight |      | Nominal OD |          | Nominal DCR |          | Nominal Capacitance |               |                  |                |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|--------------------|---------------|------------------|-------|-------------------------|------|------------|----------|-------------|----------|---------------------|---------------|------------------|----------------|
|                                                                                                                                         |             |                              |                    |               | Ft.              | m     | Lbs.                    | kg   | Inch       | mm       | Cond.       | Shield   | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded Conductors (7x32) • Tinned Copper • Overall 100% Beldfoil® + 65% TC Braid Shield • 24 AWG Stranded TC Drain Wire</b> |             |                              |                    |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>Semi-rigid PVC Insulation • Chrome PVC Jacket</b>                                                                                    |             |                              |                    |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <br>UL AWM Style 2464<br>(300V 80°C)                   | <b>9608</b> | NEC:                         | 3                  | See           | 100              | 30.5  | 3.2                     | 1.5  | .190       | 4.83     | 24.0Ω/M'    | 8.6Ω/M'  | 35                  | 115           | 65               | 213            |
|                                                                                                                                         |             | CMG:                         |                    | Chart 1       | 500              | 152.4 | 12.0                    | 5.5  |            |          | 78.7Ω/km    | 28.2Ω/km |                     |               |                  |                |
|                                                                                                                                         |             | CEC:                         |                    | (Tech Info    | 1000             | 304.8 | 23.0                    | 10.5 |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         |             | CMG FT4                      |                    | Section)      |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | <b>9609</b> | NEC:                         | 4                  | See           | 100              | 30.5  | 3.5                     | 1.6  | .200       | 5.08     | 24.0Ω/M'    | 9.8Ω/M'  | 35                  | 115           | 65               | 213            |
|                                                                                                                                         |             | CMG:                         |                    | Chart 1       | 500              | 152.4 | 14.0                    | 6.4  |            |          | 78.7Ω/km    | 32.2Ω/km |                     |               |                  |                |
|                                                                                                                                         |             | CEC:                         |                    | (Tech Info    | 1000             | 304.8 | 26.0                    | 11.8 |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         |             | CMG FT4                      |                    | Section)      |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | <b>9610</b> | NEC:                         | 5                  | See           | 100              | 30.5  | 4.0                     | 1.8  | .215       | 5.46     | 24.0Ω/M'    | 6.5Ω/M'  | 35                  | 115           | 65               | 213            |
|                                                                                                                                         |             | CMG:                         |                    | Chart 1       | 500              | 152.4 | 16.0                    | 7.3  |            |          | 78.7Ω/km    | 21.3Ω/km |                     |               |                  |                |
| CEC:                                                                                                                                    |             | (Tech Info                   |                    | 1000          | 304.8            | 32.0  | 14.5                    |      |            |          |             |          |                     |               |                  |                |
| CMG FT4                                                                                                                                 |             | Section)                     |                    |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9611</b>                                                                                                                             | NEC:        | 6                            | See                | 100           | 30.5             | 4.7   | 2.1                     | .225 | 5.72       | 24.0Ω/M' | 7.0Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 1            | 500           | 152.4            | 17.5  | 8.0                     |      |            | 78.7Ω/km | 23.0Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 34.0  | 15.5                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9612</b>                                                                                                                             | NEC:        | 7                            | See                | 100           | 30.5             | 4.7   | 2.1                     | .225 | 5.72       | 24.0Ω/M' | 6.9Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 1            | 500           | 152.4            | 19.0  | 8.6                     |      |            | 78.7Ω/km | 22.6Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 38.0  | 17.3                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9613</b>                                                                                                                             | NEC:        | 8                            | See                | 100           | 30.5             | 5.0   | 2.3                     | .240 | 6.10       | 24.0Ω/M' | 7.3Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 1            | 500           | 152.4            | 21.0  | 9.6                     |      |            | 78.7Ω/km | 23.9Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 41.0  | 18.6                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9614</b>                                                                                                                             | NEC:        | 9                            | See                | 100           | 30.5             | 5.3   | 2.4                     | .253 | 6.42       | 24.0Ω/M' | 7.5Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 1            | 500           | 152.4            | 22.0  | 10.0                    |      |            | 78.7Ω/km | 24.6Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 44.0  | 20.0                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9615</b>                                                                                                                             | NEC:        | 10                           | See                | 100           | 30.5             | 6.1   | 2.8                     | .270 | 6.86       | 24.0Ω/M' | 6.9Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 1            | 500           | 152.4            | 25.0  | 11.4                    |      |            | 78.7Ω/km | 22.6Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 50.0  | 22.7                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9616</b>                                                                                                                             | NEC:        | 15                           | See                | 100           | 30.5             | 6.6   | 3.0                     | .300 | 7.62       | 24.0Ω/M' | 6.0Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 2R           | 500           | 152.4            | 31.5  | 14.3                    |      |            | 78.7Ω/km | 19.7Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 63.0  | 28.6                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9617</b>                                                                                                                             | NEC:        | 25                           | See                | 100           | 30.5             | 10.1  | 4.6                     | .370 | 9.40       | 24.0Ω/M' | 5.1Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 2R           | 500           | 152.4            | 51.0  | 23.2                    |      |            | 78.7Ω/km | 16.7Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 100.0 | 45.5                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9618</b>                                                                                                                             | NEC:        | 37                           | See                | 100           | 30.5             | 13.3  | 6.0                     | .411 | 10.43      | 24.0Ω/M' | 4.4Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 2R           | 500           | 152.4            | 66.5  | 30.2                    |      |            | 78.7Ω/km | 14.4Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 132.0 | 60.0                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>9619</b>                                                                                                                             | NEC:        | 50                           | See                | 100           | 30.5             | 18.8  | 8.6                     | .485 | 12.32      | 24.0Ω/M' | 4.3Ω/M'     | 30       | 98.4                | 55            | 180              |                |
|                                                                                                                                         | CMG:        |                              | Chart 2R           | 500           | 152.4            | 93.0  | 42.4                    |      |            | 78.7Ω/km | 14.1Ω/km    |          |                     |               |                  |                |
|                                                                                                                                         | CEC:        |                              | (Tech Info         | 1000          | 304.8            | 182.0 | 83.0                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                         | CMG FT4     |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

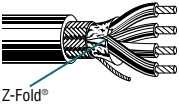
\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to ground.



## Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

| Description                                                                                                                             | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond.                        | Color<br>Code                            | Standard Lengths |       | Standard<br>Unit Weight |      | Nominal OD |          | Nominal DCR |         | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |               |                  |                |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|-------------------------------------------|------------------------------------------|------------------|-------|-------------------------|------|------------|----------|-------------|---------|-----------------------------|---------------------|---------------|------------------|----------------|
|                                                                                                                                         |             |                              |                                           |                                          | Ft.              | m     | Lbs.                    | kg   | Inch       | mm       | Cond.       | Shield  |                             | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded Conductors (7x32) • Tinned Copper • Overall 100% Beldfoil® + 65% TC Braid Shield • 24 AWG Stranded TC Drain Wire</b> |             |                              |                                           |                                          |                  |       |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>Datalene® Insulation • Chrome PVC Jacket</b>                                                                                         |             |                              |                                           |                                          |                  |       |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <br>Z-Fold®                                             | <b>9925</b> | NEC:<br>CM                   | 3                                         | See<br>Chart 1<br>(Tech Info<br>Section) | 100              | 30.5  | 3.5                     | 1.6  | .215       | 5.46     | 24.0Ω/M'    | 5.2Ω/M' | 78%                         | 12                  | 39.4          | 22               | 72.2           |
|                                                                                                                                         |             | CEC:<br>CM                   |                                           | 500                                      | 152.4            | 16.0  | 7.3                     |      |            | 78.7Ω/km | 17.0Ω/km    |         |                             |                     |               |                  |                |
|                                                                                                                                         |             | CM                           |                                           | 1000                                     | 304.8            | 26.0  | 11.8                    |      |            |          |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | <b>9927</b> | NEC:<br>CM                   | 4                                         | See<br>Chart 1<br>(Tech Info<br>Section) | 100              | 30.5  | 4.1                     | 1.9  | .230       | 5.84     | 24.0Ω/M'    | 5.3Ω/M' | 78%                         | 12                  | 39.4          | 22               | 72.2           |
|                                                                                                                                         |             | CEC:<br>CM                   |                                           | 500                                      | 152.4            | 15.5  | 7.0                     |      |            | 78.7Ω/km | 17.4Ω/km    |         |                             |                     |               |                  |                |
|                                                                                                                                         |             | CM                           |                                           | 1000                                     | 304.8            | 31.0  | 14.1                    |      |            |          |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | <b>9929</b> | NEC:<br>CM                   | 5                                         | See<br>Chart 1<br>(Tech Info<br>Section) | 100              | 30.5  | 4.5                     | 2.0  | .246       | 6.25     | 24.0Ω/M'    | 4.2Ω/M' | 78%                         | 12                  | 39.4          | 22               | 72.2           |
|                                                                                                                                         |             | CEC:<br>CM                   |                                           | 500                                      | 152.4            | 18.0  | 8.2                     |      |            | 78.7Ω/km | 13.9Ω/km    |         |                             |                     |               |                  |                |
|                                                                                                                                         |             | CM                           |                                           | 1000                                     | 304.8            | 36.0  | 16.4                    |      |            |          |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | <b>9931</b> | NEC:<br>CM                   | 6                                         | See<br>Chart 1<br>(Tech Info<br>Section) | 100              | 30.5  | 4.9                     | 2.2  | .265       | 6.73     | 24.0Ω/M'    | 4.4Ω/M' | 78%                         | 12                  | 39.4          | 22               | 72.2           |
| CEC:<br>CM                                                                                                                              |             | 500                          |                                           | 152.4                                    | 19.5             | 8.9   |                         |      | 78.7Ω/km   | 14.4Ω/km |             |         |                             |                     |               |                  |                |
| CM                                                                                                                                      |             | 1000                         |                                           | 304.8                                    | 39.0             | 17.7  |                         |      |            |          |             |         |                             |                     |               |                  |                |
|                                                                                                                                         |             | 10000                        |                                           | 3048.0                                   | 410.0            | 186.4 |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>9932</b>                                                                                                                             | NEC:<br>CM  | 7                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 5.2   | 2.4                     | .265 | 6.73       | 24.0Ω/M' | 4.4Ω/M'     | 78%     | 12                          | 39.4                | 22            | 72.2             |                |
|                                                                                                                                         | CEC:<br>CM  |                              | 500                                       | 152.4                                    | 20.5             | 9.3   |                         |      | 78.7Ω/km   | 14.4Ω/km |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | CM          |                              | 1000                                      | 304.8                                    | 41.0             | 18.6  |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>9933</b>                                                                                                                             | NEC:<br>CM  | 8                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 5.6   | 2.5                     | .280 | 7.11       | 24.0Ω/M' | 4.4Ω/M'     | 78%     | 12                          | 39.4                | 22            | 72.2             |                |
|                                                                                                                                         | CEC:<br>CM  |                              | 500                                       | 152.4                                    | 23.0             | 10.5  |                         |      | 78.7Ω/km   | 14.4Ω/km |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | CM          |                              | 1000                                      | 304.8                                    | 46.0             | 20.9  |                         |      |            |          |             |         |                             |                     |               |                  |                |
|                                                                                                                                         |             |                              | 10000                                     | 3048.0                                   | 480.0            | 218.2 |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>9934</b>                                                                                                                             | NEC:<br>CM  | 9                            | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 5.9   | 2.7                     | .300 | 7.62       | 24.0Ω/M' | 3.9Ω/M'     | 78%     | 12                          | 39.4                | 22            | 72.2             |                |
|                                                                                                                                         | CEC:<br>CM  |                              | 500                                       | 152.4                                    | 24.0             | 10.9  |                         |      | 78.7Ω/km   | 12.6Ω/km |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | CM          |                              | 1000                                      | 304.8                                    | 48.0             | 21.8  |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>9935</b>                                                                                                                             | NEC:<br>CM  | 10                           | See<br>Chart 1<br>(Tech Info<br>Section)  | 100                                      | 30.5             | 5.7   | 2.6                     | .306 | 7.77       | 24.0Ω/M' | 3.2Ω/M'     | 78%     | 12                          | 39.4                | 22            | 72.2             |                |
|                                                                                                                                         | CEC:<br>CM  |                              | 500                                       | 152.4                                    | 27.0             | 12.3  |                         |      | 78.7Ω/km   | 10.4Ω/km |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | CM          |                              | 1000                                      | 304.8                                    | 53.0             | 24.1  |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>9936</b>                                                                                                                             | NEC:<br>CM  | 15                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 7.2   | 3.3                     | .350 | 8.89       | 24.0Ω/M' | 3.6Ω/M'     | 78%     | 12                          | 39.4                | 22            | 72.2             |                |
|                                                                                                                                         | CEC:<br>CM  |                              | 500                                       | 152.4                                    | 35.0             | 15.9  |                         |      | 78.7Ω/km   | 11.7Ω/km |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | CM          |                              | 1000                                      | 304.8                                    | 68.0             | 30.9  |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>9937</b>                                                                                                                             | NEC:<br>CM  | 25                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 13.6  | 6.2                     | .445 | 11.30      | 24.0Ω/M' | 2.8Ω/M'     | 78%     | 12                          | 39.4                | 22            | 72.2             |                |
|                                                                                                                                         | CEC:<br>CM  |                              | 500                                       | 152.4                                    | 54.5             | 24.8  |                         |      | 78.7Ω/km   | 9.1Ω/km  |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | CM          |                              | 1000                                      | 304.8                                    | 108.0            | 49.1  |                         |      |            |          |             |         |                             |                     |               |                  |                |
| <b>9938</b>                                                                                                                             | NEC:<br>CM  | 37                           | See<br>Chart 2R<br>(Tech Info<br>Section) | 100                                      | 30.5             | 16.8  | 7.6                     | .515 | 13.08      | 24.0Ω/M' | 2.4Ω/M'     | 78%     | 12                          | 39.4                | 22            | 72.2             |                |
|                                                                                                                                         | CEC:<br>CM  |                              | 500                                       | 152.4                                    | 71.5             | 32.5  |                         |      | 78.7Ω/km   | 7.8Ω/km  |             |         |                             |                     |               |                  |                |
|                                                                                                                                         | CM          |                              | 1000                                      | 304.8                                    | 139.0            | 63.2  |                         |      |            |          |             |         |                             |                     |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to ground.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.



By:



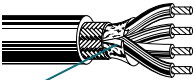
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1-800-527-0010

## Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

| Description                                                                                                                      | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |       | Standard<br>Unit Weight |      | Nominal OD |          | Nominal DCR |          | Nominal Capacitance |               |                  |                |
|----------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|--------------------|---------------|------------------|-------|-------------------------|------|------------|----------|-------------|----------|---------------------|---------------|------------------|----------------|
|                                                                                                                                  |          |                              |                    |               | Ft.              | m     | Lbs.                    | kg   | Inch       | mm       | Cond.       | Shield   | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>22 AWG Stranded Conductors (7x30) • Tinned Copper • Overall 100% Beldfoil® + 65% Tinned Copper Braid Shield</b>               |          |                              |                    |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <b>Semi-rigid PVC Insulation • Chrome PVC Jacket</b>                                                                             |          |                              |                    |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| <br>UL AWM Style 2464<br>(300V 80°C)<br>Z-Fold® | 9939     | NEC:                         | 3                  | See           | 100              | 30.5  | 3.6                     | 1.6  | .202       | 5.13     | 14.7Ω/M'    | 6.2Ω/M'  | 37                  | 121           | 67               | 220            |
|                                                                                                                                  |          | CMG                          |                    | Chart 1       | 500              | 152.4 | 14.0                    | 6.4  |            |          | 48.2Ω/km    | 20.3Ω/km |                     |               |                  |                |
|                                                                                                                                  |          | CEC:                         |                    | (Tech Info    | 1000             | 304.8 | 27.0                    | 12.3 |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  |          | CMG FT4                      |                    | Section)      |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | 9940     | NEC:                         | 4                  | See           | 100              | 30.5  | 4.0                     | 1.8  | .215       | 5.46     | 14.7Ω/M'    | 5.0Ω/M'  | 37                  | 121           | 67               | 220            |
|                                                                                                                                  |          | CMG                          |                    | Chart 1       | 500              | 152.4 | 16.5                    | 7.5  |            |          | 48.2Ω/km    | 16.4Ω/km |                     |               |                  |                |
|                                                                                                                                  |          | CEC:                         |                    | (Tech Info    | 1000             | 304.8 | 32.0                    | 14.5 |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  |          | CMG FT4                      |                    | Section)      |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | 9941     | NEC:                         | 5                  | See           | 100              | 30.5  | 4.7                     | 2.1  | .230       | 5.84     | 14.7Ω/M'    | 7.1Ω/M'  | 37                  | 121           | 67               | 220            |
|                                                                                                                                  |          | CMG                          |                    | Chart 1       | 500              | 152.4 | 19.0                    | 8.6  |            |          | 48.2Ω/km    | 23.3Ω/km |                     |               |                  |                |
| CEC:                                                                                                                             |          | (Tech Info                   |                    | 1000          | 304.8            | 38.0  | 17.3                    |      |            |          |             |          |                     |               |                  |                |
| CMG FT4                                                                                                                          |          | Section)                     |                    |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9942                                                                                                                             | NEC:     | 6                            | See                | 100           | 30.5             | 5.2   | 2.4                     | .245 | 6.22       | 14.7Ω/M' | 7.9Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 1            | 500           | 152.4            | 22.0  | 10.0                    |      |            | 48.2Ω/km | 25.9Ω/km    |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 43.0  | 19.5                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9943                                                                                                                             | NEC:     | 7                            | See                | 100           | 30.5             | 5.5   | 2.5                     | .245 | 6.22       | 14.7Ω/M' | 7.0Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 1            | 500           | 152.4            | 23.0  | 10.5                    |      |            | 48.2Ω/km | 23.0Ω/km    |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 46.0  | 20.9                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9944                                                                                                                             | NEC:     | 8                            | See                | 100           | 30.5             | 6.2   | 2.8                     | .260 | 6.60       | 14.7Ω/M' | 6.0Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 1            | 500           | 152.4            | 26.0  | 11.8                    |      |            | 48.2Ω/km | 19.7Ω/km    |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 51.0  | 23.2                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9945                                                                                                                             | NEC:     | 9                            | See                | 100           | 30.5             | 6.8   | 3.1                     | .280 | 7.11       | 14.7Ω/M' | 5.1Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 1            | 500           | 152.4            | 28.5  | 13.0                    |      |            | 48.2Ω/km | 16.7Ω/km    |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 57.0  | 25.9                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9946                                                                                                                             | NEC:     | 10                           | See                | 100           | 30.5             | 7.3   | 3.3                     | .300 | 7.62       | 14.7Ω/M' | 4.6Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 1            | 500           | 152.4            | 31.5  | 14.3                    |      |            | 48.2Ω/km | 15.1Ω/km    |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 62.0  | 28.2                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9947                                                                                                                             | NEC:     | 15                           | See                | 100           | 30.5             | 8.7   | 4.0                     | .340 | 8.64       | 14.7Ω/M' | 4.1Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 2R           | 500           | 152.4            | 42.5  | 19.3                    |      |            | 48.2Ω/km | 13.5Ω/km    |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 83.0  | 37.7                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9948                                                                                                                             | NEC:     | 25                           | See                | 100           | 30.5             | 13.1  | 6.0                     | .410 | 10.41      | 14.7Ω/M' | 3.1Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 2R           | 500           | 152.4            | 65.5  | 29.8                    |      |            | 48.2Ω/km | 10.2Ω/km    |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 130.0 | 59.1                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9949                                                                                                                             | NEC:     | 37                           | See                | 100           | 30.5             | 17.7  | 8.0                     | .460 | 11.68      | 14.7Ω/M' | 2.7Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 2R           | 500           | 152.4            | 87.5  | 39.8                    |      |            | 48.2Ω/km | 8.9Ω/km     |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 180.0 | 81.8                    |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |
| 9950                                                                                                                             | NEC:     | 50                           | See                | 100           | 30.5             | 23.9  | 10.9                    | .555 | 14.10      | 14.7Ω/M' | 2.3Ω/M'     | 35       | 115                 | 63            | 207              |                |
|                                                                                                                                  | CMG      |                              | Chart 2R           | 500           | 152.4            | 118.0 | 53.6                    |      |            | 48.2Ω/km | 7.5Ω/km     |          |                     |               |                  |                |
|                                                                                                                                  | CEC:     |                              | (Tech Info         | 1000          | 304.8            | 238.0 | 108.2                   |      |            |          |             |          |                     |               |                  |                |
|                                                                                                                                  | CMG FT4  |                              | Section)           |               |                  |       |                         |      |            |          |             |          |                     |               |                  |                |

DCR = DC Resistance

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to ground.

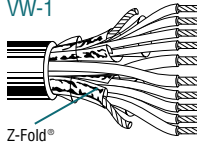
## Overall Shield

Special Audio, Communication and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 and 22 AWG** Stranded Conductors (7x32 and 7x30) • Tinned Copper • Cabled in Quads† • 24 AWG Stranded Tinned Copper Drain Wire

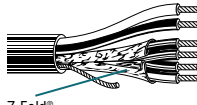
### PVC Insulation (22 AWG) / Polyethylene Insulation (24 AWG) • Chrome PVC Jacket

|                                                                                  |             |  |           |                |       |         |      |      |      |     |      |     |      |      |   |   |   |   |
|----------------------------------------------------------------------------------|-------------|--|-----------|----------------|-------|---------|------|------|------|-----|------|-----|------|------|---|---|---|---|
| 350V RMS 80°C<br>VW-1                                                            | <b>8787</b> |  | 10:       | Gray,          | U-500 | U-152.4 | 24.5 | 11.1 | .012 | .30 | .030 | .76 | .290 | 7.37 | — | — | — | — |
|  |             |  | 4 Shld    | White,         | 500   | 152.4   | 24.5 | 11.1 |      |     |      |     |      |      |   |   |   |   |
|                                                                                  |             |  | 24 (7x32) | Blue, Green    |       |         |      |      |      |     |      |     |      |      |   |   |   |   |
|                                                                                  |             |  | 4 Shld    | Brown, Red,    |       |         |      |      | .012 | .30 |      |     |      |      |   |   |   |   |
|                                                                                  |             |  | 24 (7x32) | Yellow, Orange |       |         |      |      |      |     |      |     |      |      |   |   |   |   |
|                                                                                  |             |  | 2 Unshld  | White,         |       |         |      |      | .015 | .38 |      |     |      |      |   |   |   |   |
|                                                                                  |             |  | 22 (7x30) | Blue           |       |         |      |      |      |     |      |     |      |      |   |   |   |   |

† Each quad wrapped in transparent polyester tape. Red Beldfoil® shield over one quad, Green Beldfoil shield over the other. (2) quads and (2) unshielded conductors cabled.

**24 and 22 AWG** Stranded Conductors (7x32 and 7x30) • Tinned Copper • (4) Conductors Cabled†† • 22 AWG Stranded Tinned Copper Drain Wire

### PVC Insulation • Chrome PVC Jacket

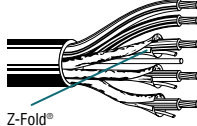
|                                                                                  |             |      |           |             |       |         |      |     |      |     |      |     |      |      |   |   |   |   |
|----------------------------------------------------------------------------------|-------------|------|-----------|-------------|-------|---------|------|-----|------|-----|------|-----|------|------|---|---|---|---|
| 300V 90°C<br>NEC Article 800                                                     | <b>8786</b> | NEC: | 6:        | Black,      | U-500 | U-152.4 | 16.5 | 7.5 | .015 | .38 | .028 | .71 | .236 | 5.99 | — | — | — | — |
|  |             | CM   | 4 Shld    | Green, Red, | 500   | 152.4   | 17.0 | 7.7 |      |     |      |     |      |      |   |   |   |   |
|                                                                                  |             | CEC: | 24 (7x32) | Yellow      |       |         |      |     |      |     |      |     |      |      |   |   |   |   |
|                                                                                  |             | CM   | 2 Unshld  | Blue,       |       |         |      |     |      |     |      |     |      |      |   |   |   |   |
|                                                                                  |             |      | 22 (7x30) | White       |       |         |      |     |      |     |      |     |      |      |   |   |   |   |

Z-Fold®

†† (4) conductors cabled under 100% Beldfoil shield; (2) conductors unshielded.

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • (3) Conductors Cabled and Separately Beldfoil Shielded (100%) with Drain Wires\*

### PVC Insulation • Chrome PVC Jacket

|                                                                                    |             |      |           |              |     |       |      |     |      |     |      |     |      |      |    |     |   |   |
|------------------------------------------------------------------------------------|-------------|------|-----------|--------------|-----|-------|------|-----|------|-----|------|-----|------|------|----|-----|---|---|
| 300V RMS 60°C                                                                      | <b>8788</b> | NEC: | 5:        | Black,       | 500 | 152.4 | 17.5 | 8.0 | .015 | .38 | .028 | .71 | .236 | 5.99 | 34 | 112 | — | — |
|  |             | CM   | 3 Shld    | Red, Green   |     |       |      |     |      |     |      |     |      |      |    |     |   |   |
|                                                                                    |             |      | 2 Unshld* | Yellow, Blue |     |       |      |     |      |     |      |     |      |      |    |     |   |   |

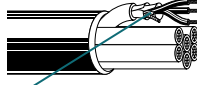
Z-Fold®

\* (2) Unshielded conductors cabled around a non-hygroscopic filler.

\* Drain wire for each conductor is tinned cadmium bronze ribbon under 100% Beldfoil shield coverage.

**22 AWG Triads** Stranded Conductors (7x30) • Tinned Copper • Cabled in Triads\* • 22 AWG Stranded Tinned Copper Drain Wire

### Polypropylene Insulation • Overall Chrome PVC Jacket

|                                                                                    |             |  |                   |                                                 |     |       |       |      |      |     |      |      |      |       |    |     |    |     |
|------------------------------------------------------------------------------------|-------------|--|-------------------|-------------------------------------------------|-----|-------|-------|------|------|-----|------|------|------|-------|----|-----|----|-----|
| 300V RMS 80°C<br>VW-1                                                              | <b>9772</b> |  | 36<br>(12 triads) | Black, Red, Green, Triads w/Color Coded Jackets | 500 | 152.4 | 139.0 | 63.2 | .008 | .20 | .060 | 1.52 | .725 | 18.42 | 34 | 112 | 67 | 220 |
|  |             |  |                   |                                                 |     |       |       |      |      |     |      |      |      |       |    |     |    |     |
|                                                                                    |             |  |                   |                                                 |     |       |       |      |      |     |      |      |      |       |    |     |    |     |

Z-Fold®

\* Each triad shielded with 100% Beldfoil shield and drain wire, encased in a .020" white PVC jacket with color coded stripes.

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to ground.



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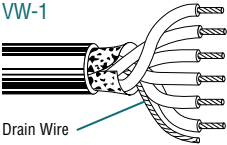
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1-800-527-0010

## Overall Shield

Data Cables for Molex SEMMCONN and AMP® SDL Connectors

Computers, Instrumentation and Medical Electronics Interconnect Cables

| Description                                                                                                                                                   | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code                                                                                                                                              | Standard Lengths |                | Standard<br>Unit Weight |             | Insulation<br>Thickness |             | Jacket<br>Thickness |    | Nominal OD |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|-------------------------|-------------|-------------------------|-------------|---------------------|----|------------|----|
|                                                                                                                                                               |          |                              |                    |                                                                                                                                                            | Ft.              | m              | Lbs.                    | kg          | Inch                    | mm          | Inch                | mm | Inch       | mm |
| 26 AWG Stranded Conductors (7x34) • Tinned Copper • 100% Duofoil® Shield • 26 AWG Stranded Tinned Copper Drain Wire                                           |          |                              |                    |                                                                                                                                                            |                  |                |                         |             |                         |             |                     |    |            |    |
| PVC Insulation • Black PVC Jacket                                                                                                                             |          |                              |                    |                                                                                                                                                            |                  |                |                         |             |                         |             |                     |    |            |    |
| <div>UL AWM Style 2464<br/>(300V 80°C)<br/>VW-1</div>  <div>Drain Wire</div> | 1211A    | NEC:<br>CL2X                 | 4                  | White,<br>Yellow,<br>Orange,<br>Green                                                                                                                      | 500<br>1000      | 152.4<br>304.8 | 12.0<br>23.0            | 5.5<br>10.5 | .015<br>.37             | .035<br>.89 | .193<br>4.90        |    |            |    |
|                                                                                                                                                               | 1212A    | NEC:<br>CL2X                 | 6                  | Red, Blue,<br>Green,<br>Orange,<br>Yellow,<br>White                                                                                                        | 500<br>1000      | 152.4<br>304.8 | 15.0<br>29.0            | 6.8<br>13.2 | .015<br>.37             | .035<br>.89 | .217<br>5.51        |    |            |    |
|                                                                                                                                                               | 1213A    | NEC:<br>CL2X                 | 8                  | Black,<br>Purple,<br>Red, Blue,<br>Green,<br>Orange,<br>Yellow,<br>White                                                                                   | 500<br>1000      | 152.4<br>304.8 | 12.0<br>23.0            | 5.5<br>10.5 | .015<br>.37             | .036<br>.91 | .234<br>5.94        |    |            |    |
|                                                                                                                                                               | 1214A    | NEC:<br>CL2X                 | 16                 | White & Red,<br>White & Brown,<br>White & Black,<br>Black, Red,<br>Brown,<br>Purple, Blue,<br>Green, Gray,<br>Aqua, Tan,<br>Pink, Orange,<br>White, Yellow | 1000             | 304.8          | 57.0                    | 25.9        | .015<br>.37             | .035<br>.89 | .301<br>7.65        |    |            |    |

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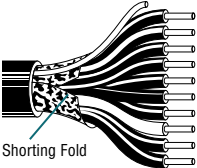
## Overall Shield

### Direct Burial Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**20 AWG Solid Conductors • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil® Shield • 22 AWG Solid TC Drain Wire**

| Polypropylene Insulation • Black HDPE Jacket                                     |      |           |   |                 |      |       |      |     |      |     |      |     |      |      |    |    |    |     |
|----------------------------------------------------------------------------------|------|-----------|---|-----------------|------|-------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
|  | 9802 | 350V 80°C | 2 | White,<br>Black | 500  | 152.4 | 12.5 | 5.7 | .013 | .33 | .035 | .89 | .190 | 4.83 | 23 | 75 | 42 | 138 |
|                                                                                  |      |           |   |                 | 1000 | 304.8 | 20.0 | 9.1 |      |     |      |     |      |      |    |    |    |     |

| Polypropylene Insulation • Black HDPE Jacket                                     |      |          |    |                                          |      |       |      |      |      |     |      |      |      |      |    |    |    |     |
|----------------------------------------------------------------------------------|------|----------|----|------------------------------------------|------|-------|------|------|------|-----|------|------|------|------|----|----|----|-----|
|  | 9803 | 350V RMS | 3  | White,<br>Red,<br>Black                  | 1000 | 304.8 | 25.0 | 11.4 | .013 | .33 | .035 | .89  | .205 | 5.21 | 23 | 75 | 42 | 138 |
|                                                                                  |      |          |    |                                          |      |       |      |      |      |     |      |      |      |      |    |    |    |     |
|                                                                                  | 9890 |          | 10 | See<br>Chart 1<br>(Tech Info<br>Section) | 500  | 152.4 | 32.0 | 14.5 | .013 | .33 | .040 | 1.02 | .310 | 7.87 | 23 | 75 | 42 | 138 |
|                                                                                  |      |          |    |                                          | 1000 | 304.8 | 65.0 | 29.5 |      |     |      |      |      |      |    |    |    |     |
|                                                                                  | 9894 |          | 15 | See<br>Chart 2<br>(Tech Info<br>Section) | 1000 | 304.8 | 96.0 | 43.6 | .013 | .33 | .045 | 1.14 | .390 | 9.91 | 23 | 75 | 42 | 138 |

HDPE = High-density Polyethylene • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to ground.



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**Plenum-Rated**

Unshielded

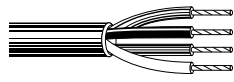
Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

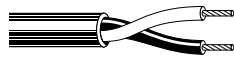
**22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled**

| Plenum • FEP Insulation • Red FEP Jacket                                                         |              |                 |   |                                   |                   |       |      |     |      |     |      |     |      |      |
|--------------------------------------------------------------------------------------------------|--------------|-----------------|---|-----------------------------------|-------------------|-------|------|-----|------|-----|------|-----|------|------|
| Non-conduit<br> | <b>88444</b> | NEC:            | 4 | Black,<br>White,<br>Red,<br>Green | 100               | 30.5  | 3.0  | 1.4 | .006 | .15 | .010 | .25 | .121 | 3.07 |
|                                                                                                  |              | CMP             |   |                                   | 500 <sup>†</sup>  | 152.4 | 9.0  | 4.1 |      |     |      |     |      |      |
|                                                                                                  |              | CEC:<br>CMP FT6 |   |                                   | 1000 <sup>†</sup> | 304.8 | 16.0 | 7.3 |      |     |      |     |      |      |

Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                                             |              |                 |   |                                   |                     |         |      |     |      |     |      |     |      |      |
|--------------------------------------------------------------------------------------------------|--------------|-----------------|---|-----------------------------------|---------------------|---------|------|-----|------|-----|------|-----|------|------|
| Non-conduit<br> | <b>82444</b> | NEC:            | 4 | Black,<br>White,<br>Red,<br>Green | U-500 <sup>†</sup>  | U-152.4 | 8.5  | 3.9 | .006 | .15 | .015 | .38 | .134 | 3.40 |
|                                                                                                  |              | CMP             |   |                                   | U-1000 <sup>†</sup> | U-304.8 | 17.0 | 7.7 |      |     |      |     |      |      |
|                                                                                                  |              | CEC:<br>CMP FT6 |   |                                   | 1000 <sup>†</sup>   | 304.8   | 17.0 | 7.7 |      |     |      |     |      |      |

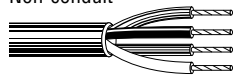
**22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs**

| Plenum • FEP Insulation • Red FEP Jacket                                                                   |              |                 |   |               |                   |       |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------|--------------|-----------------|---|---------------|-------------------|-------|------|-----|------|-----|------|-----|------|------|
| 300V RMS, Non-conduit<br> | <b>88442</b> | NEC:            | 2 | Black,<br>Red | 100               | 30.5  | 2.3  | 1.0 | .006 | .15 | .012 | .30 | .102 | 2.59 |
|                                                                                                            |              | CMP             |   |               | 500 <sup>†</sup>  | 152.4 | 5.5  | 2.5 |      |     |      |     |      |      |
|                                                                                                            |              | CEC:<br>CMP FT6 |   |               | 1000 <sup>†</sup> | 304.8 | 10.0 | 4.5 |      |     |      |     |      |      |

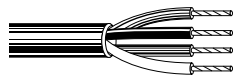
Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Natural Flamarrest Jacket                                                          |                                    |                 |   |               |                     |         |      |      |      |     |      |     |      |      |
|--------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|---|---------------|---------------------|---------|------|------|------|-----|------|-----|------|------|
| 300V RMS, Non-conduit<br> | <b>82442</b><br><small>new</small> | NEC:            | 2 | Black,<br>Red | U-1000 <sup>†</sup> | U-304.8 | 83.0 | 37.7 | .006 | .15 | .014 | .36 | .112 | 2.84 |
|                                                                                                              |                                    | CMP             |   |               | 1000 <sup>†</sup>   | 304.8   | 84.0 | 38.2 |      |     |      |     |      |      |
|                                                                                                              |                                    | CEC:<br>CMP FT6 |   |               |                     |         |      |      |      |     |      |     |      |      |

**18 AWG Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled**

| Plenum • FEP Insulation • Red FEP Jacket                                                           |              |                 |   |                                   |                   |       |      |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------------------------|--------------|-----------------|---|-----------------------------------|-------------------|-------|------|------|------|-----|------|-----|------|------|
| Non-conduit<br> | <b>88489</b> | NEC:            | 4 | Black,<br>White,<br>Red,<br>Green | 500 <sup>†</sup>  | 152.4 | 16.5 | 7.5  | .007 | .18 | .009 | .23 | .161 | 4.09 |
|                                                                                                    |              | CMP             |   |                                   | 1000 <sup>†</sup> | 304.8 | 31.0 | 14.1 |      |     |      |     |      |      |
|                                                                                                    |              | CEC:<br>CMP FT6 |   |                                   |                   |       |      |      |      |     |      |     |      |      |

Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Natural Flamarrest Jacket                                                |              |                 |   |                                   |                     |         |      |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------------------------|--------------|-----------------|---|-----------------------------------|---------------------|---------|------|------|------|-----|------|-----|------|------|
| Non-conduit<br> | <b>82489</b> | NEC:            | 4 | Black,<br>White,<br>Red,<br>Green | U-1000 <sup>†</sup> | U-304.8 | 31.0 | 14.1 | .007 | .18 | .014 | .36 | .170 | 4.32 |
|                                                                                                    |              | CMP             |   |                                   | 1000 <sup>†</sup>   | 304.8   | 31.0 | 14.1 |      |     |      |     |      |      |
|                                                                                                    |              | CEC:<br>CMP FT6 |   |                                   |                     |         |      |      |      |     |      |     |      |      |

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

## Plenum-Rated

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**18 AWG** Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire

| Plenum • FEP Insulation • Red FEP Jacket                                                        |                                    |                                |   |                                   |                   |       |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|---|-----------------------------------|-------------------|-------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| Non-conduit<br> | <b>88770</b><br><small>new</small> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3 | Black,<br>White,<br>Red           | 500 <sup>†</sup>  | 152.4 | 18.0 | 8.2  | .007 | .18 | .014 | .36 | .161 | 4.09 | 54 | 177 | 96 | 315 |
|                                                                                                 |                                    |                                |   |                                   | 1000 <sup>†</sup> | 304.8 | 34.0 | 15.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 | <b>89418</b>                       | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | Black,<br>White,<br>Red,<br>Green | 100               | 30.5  | 5.5  | 2.5  | .007 | .18 | .014 | .36 | .177 | 4.50 | 30 | 98  | 57 | 187 |
|                                                                                                 |                                    |                                |   |                                   | 500 <sup>†</sup>  | 152.4 | 20.0 | 9.1  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                                    |                                |   |                                   | 1000 <sup>†</sup> | 304.8 | 41.0 | 18.6 |      |     |      |     |      |      |    |     |    |     |

Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                                            |              |                                |   |                                   |                     |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------|--------------|--------------------------------|---|-----------------------------------|---------------------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| Non-conduit<br> | <b>82418</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | Black,<br>White,<br>Red,<br>Green | U-1000 <sup>†</sup> | U-304.8 | 35.0 | 15.9 | .007 | .18 | .014 | .36 | .176 | 4.47 | 35 | 115 | 63 | 207 |
|                                                                                                 |              |                                |   |                                   | 1000 <sup>†</sup>   | 304.8   | 39.0 | 17.7 |      |     |      |     |      |      |    |     |    |     |

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



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**Plenum-Rated**

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG** Stranded Conductors (7x32) • Tinned Copper • Conductors Cabled • 100% Beldfoil® + 85% Tinned Copper Braid Shield

| Plenum • FEP Insulation • Red FEP Jacket                                          |             |              |                                |    |                                          |                                              |                        |                     |                     |             |             |              |          |           |  |  |  |  |
|-----------------------------------------------------------------------------------|-------------|--------------|--------------------------------|----|------------------------------------------|----------------------------------------------|------------------------|---------------------|---------------------|-------------|-------------|--------------|----------|-----------|--|--|--|--|
|  | Non-conduit | <b>83503</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3  | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8         | 9.5<br>18.0         | 4.3<br>8.2          | .006<br>.15 | .014<br>.36 | .135<br>3.43 | 20<br>66 | 36<br>118 |  |  |  |  |
|                                                                                   |             | <b>83504</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 3.5<br>11.5<br>22.0 | 1.6<br>5.2<br>10.0  | .006<br>.15 | .014<br>.36 | .144<br>3.66 | 20<br>66 | 36<br>118 |  |  |  |  |
|                                                                                   |             | <b>83506</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6  | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8         | 15.0<br>28.0        | 6.8<br>12.7         | .006<br>.15 | .014<br>.36 | .165<br>4.19 | 20<br>66 | 36<br>118 |  |  |  |  |
|                                                                                   |             | <b>83509</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 5.3<br>19.0<br>39.0 | 2.4<br>8.6<br>17.7  | .006<br>.15 | .014<br>.36 | .188<br>4.78 | 20<br>66 | 36<br>118 |  |  |  |  |
|                                                                                   |             | <b>83512</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 12 | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8         | 23.0<br>47.0        | 10.5<br>21.4        | .006<br>.15 | .014<br>.36 | .207<br>5.26 | 20<br>66 | 36<br>118 |  |  |  |  |
|                                                                                   |             | <b>83515</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 15 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 7.2<br>27.0<br>53.0 | 3.3<br>12.3<br>24.1 | .006<br>.15 | .014<br>.36 | .227<br>5.77 | 20<br>66 | 36<br>118 |  |  |  |  |

Suitable for Outdoor and Direct Burial applications.

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled • 100% Beldfoil® + 85% Tinned Copper Braid Shield

| Plenum • FEP Insulation • Red FEP Jacket                                            |             |              |                                |    |                                          |                                              |                        |                     |                     |             |             |              |          |           |  |  |  |  |
|-------------------------------------------------------------------------------------|-------------|--------------|--------------------------------|----|------------------------------------------|----------------------------------------------|------------------------|---------------------|---------------------|-------------|-------------|--------------|----------|-----------|--|--|--|--|
|  | Non-conduit | <b>83552</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2  | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8         | 10.0<br>18.0        | 4.5<br>8.2          | .006<br>.15 | .014<br>.36 | .141<br>3.58 | 23<br>75 | 40<br>131 |  |  |  |  |
|                                                                                     |             | <b>83553</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 3.5<br>12.0<br>22.0 | 1.6<br>5.5<br>10.0  | .006<br>.15 | .014<br>.36 | .144<br>3.76 | 23<br>75 | 40<br>131 |  |  |  |  |
|                                                                                     |             | <b>83554</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 4.0<br>14.0<br>27.0 | 1.8<br>6.4<br>12.3  | .006<br>.15 | .014<br>.36 | .159<br>4.04 | 23<br>75 | 40<br>131 |  |  |  |  |
|                                                                                     |             | <b>83556</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 5.2<br>18.0<br>38.0 | 2.4<br>8.2<br>17.3  | .006<br>.15 | .014<br>.36 | .183<br>4.65 | 23<br>75 | 40<br>131 |  |  |  |  |
|                                                                                     |             | <b>83559</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 6.8<br>25.0<br>50.0 | 3.1<br>11.4<br>22.7 | .006<br>.15 | .014<br>.36 | .209<br>5.31 | 23<br>75 | 40<br>131 |  |  |  |  |
|                                                                                     |             | <b>83562</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 12 | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8         | 30.5<br>60.0        | 13.9<br>27.3        | .006<br>.15 | .015<br>.38 | .234<br>5.94 | 23<br>75 | 40<br>131 |  |  |  |  |
|                                                                                     |             | <b>83569</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 19 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 9.6<br>45.5<br>85.0 | 4.4<br>20.7<br>38.6 | .006<br>.15 | .015<br>.38 | .269<br>6.83 | 23<br>75 | 40<br>131 |  |  |  |  |

Suitable for Outdoor and Direct Burial applications.

\*Capacitance between conductors. \*\*Capacitance between one conductor and other conductors connected to shield.

†Spools are one piece, but length may vary  $\pm 10\%$  from length shown.



**Plenum-Rated**

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**20 AWG** Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled • 100% Beldfoil® + 85% Tinned Copper Braid Shield

| Plenum • FEP Insulation • Red FEP Jacket                                         |             |              |                                |    |                                          |                                              |                        |                     |                     |      |     |      |     |      |      |    |    |    |     |
|----------------------------------------------------------------------------------|-------------|--------------|--------------------------------|----|------------------------------------------|----------------------------------------------|------------------------|---------------------|---------------------|------|-----|------|-----|------|------|----|----|----|-----|
|  | Non-conduit | <b>83602</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2  | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8         | 13.0<br>24.0        | 5.9<br>10.9         | .006 | .15 | .014 | .36 | .152 | 3.86 | 26 | 85 | 51 | 167 |
|                                                                                  |             | <b>83604</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 5.1<br>18.0<br>34.0 | 2.3<br>8.2<br>15.5  | .006 | .15 | .014 | .36 | .178 | 4.52 | 26 | 85 | 51 | 167 |
|                                                                                  |             | <b>83606</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 6.2<br>23.5<br>48.0 | 2.8<br>10.7<br>21.8 | .006 | .15 | .014 | .36 | .207 | 5.26 | 26 | 85 | 51 | 167 |
|                                                                                  |             | <b>83609</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 8.2<br>32.0<br>63.0 | 3.7<br>14.5<br>28.6 | .006 | .15 | .014 | .36 | .238 | 6.05 | 26 | 85 | 51 | 167 |
|                                                                                  |             | <b>83612</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 12 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 7.8<br>36.5<br>67.0 | 3.5<br>16.6<br>30.5 | .006 | .15 | .014 | .36 | .265 | 6.73 | 26 | 85 | 51 | 167 |

**18 AWG** Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled • 100% Beldfoil + 85% Tinned Copper Braid Shield

| Plenum • FEP Insulation • Red FEP Jacket                                           |             |              |                                |    |                                          |                                              |                        |                       |                     |      |     |      |     |      |      |    |     |    |     |
|------------------------------------------------------------------------------------|-------------|--------------|--------------------------------|----|------------------------------------------|----------------------------------------------|------------------------|-----------------------|---------------------|------|-----|------|-----|------|------|----|-----|----|-----|
|  | Non-conduit | <b>83652</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 4.6<br>15.0<br>29.0   | 2.1<br>6.8<br>13.2  | .007 | .18 | .014 | .36 | .175 | 4.45 | 33 | 108 | 60 | 197 |
|                                                                                    |             | <b>83653</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 5.4<br>19.5<br>40.0   | 2.5<br>8.9<br>18.2  | .007 | .18 | .014 | .36 | .184 | 4.67 | 33 | 108 | 60 | 197 |
|                                                                                    |             | <b>83654</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 6.2<br>23.5<br>48.0   | 2.8<br>10.7<br>21.8 | .007 | .18 | .014 | .36 | .199 | 5.05 | 33 | 108 | 60 | 197 |
|                                                                                    |             | <b>83656</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 8.1<br>31.5<br>62.0   | 3.7<br>14.3<br>28.2 | .007 | .18 | .014 | .36 | .234 | 5.94 | 33 | 108 | 60 | 197 |
|                                                                                    |             | <b>83659</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9  | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 9.8<br>46.5<br>88.0   | 4.5<br>21.1<br>40.0 | .007 | .18 | .015 | .36 | .293 | 7.44 | 33 | 108 | 60 | 197 |
|                                                                                    |             | <b>83662</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 12 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 11.9<br>55.5<br>109.0 | 5.4<br>25.2<br>49.5 | .007 | .18 | .015 | .36 | .308 | 7.82 | 33 | 108 | 60 | 197 |

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup>Spools are one piece, but length may vary ±10% from length shown.

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1-800-527-0010

**Plenum-Rated**

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

| Description                                                                                                              | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond.             | Color<br>Code | Standard Lengths                         |                                              | Standard<br>Unit Weight |                        | Insulation<br>Thickness |                    | Jacket<br>Thickness |                        | Nominal OD       |                  | Nominal Capacitance |               |                  |                |
|--------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|--------------------------------|---------------|------------------------------------------|----------------------------------------------|-------------------------|------------------------|-------------------------|--------------------|---------------------|------------------------|------------------|------------------|---------------------|---------------|------------------|----------------|
|                                                                                                                          |             |                              |                                |               | Ft.                                      | m                                            | Lbs.                    | kg                     | Inch                    | mm                 | Inch                | mm                     | Inch             | mm               | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| 16 AWG Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled • 100% Beldfoil® + 85% Tinned Copper Braid Shield |             |                              |                                |               |                                          |                                              |                         |                        |                         |                    |                     |                        |                  |                  |                     |               |                  |                |
| Plenum • FEP Insulation • Red FEP Jacket                                                                                 |             |                              |                                |               |                                          |                                              |                         |                        |                         |                    |                     |                        |                  |                  |                     |               |                  |                |
|                                         | Non-conduit | 83702                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2             | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8  | 5.1<br>20.0<br>41.0    | 2.3<br>9.1<br>18.6      | .007<br>.18<br>.18 | .014<br>.36<br>.36  | .196<br>4.72<br>4.72   | 35<br>115<br>115 | 63<br>207<br>207 |                     |               |                  |                |
|                                                                                                                          |             | 83703                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3             | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8          | 25.0<br>51.0           | 11.4<br>23.2            | .007<br>.18        | .014<br>.36         | .206<br>5.23           | 35<br>115        | 63<br>207        |                     |               |                  |                |
|                                                                                                                          |             | 83704                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4             | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8  | 8.0<br>31.0<br>61.0    | 3.6<br>14.1<br>27.7     | .007<br>.18<br>.18 | .014<br>.36<br>.36  | .223<br>5.66<br>5.66   | 35<br>115<br>115 | 63<br>207<br>207 |                     |               |                  |                |
|                                                                                                                          |             | 83706                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6             | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8  | 9.6<br>45.5<br>86.0    | 4.4<br>20.7<br>39.2     | .007<br>.18<br>.18 | .014<br>.36<br>.36  | .265<br>6.73<br>6.73   | 35<br>115<br>115 | 63<br>207<br>207 |                     |               |                  |                |
|                                                                                                                          |             | 83709                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9             | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8  | 13.1<br>61.5<br>118.0  | 6.0<br>28.0<br>53.6     | .007<br>.18<br>.18 | .014<br>.36<br>.36  | .307<br>7.80<br>7.80   | 35<br>115<br>115 | 63<br>207<br>207 |                     |               |                  |                |
|                                                                                                                          |             | 83712                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 12            | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8  | 16.4<br>77.0<br>151.0  | 7.5<br>35.0<br>68.6     | .007<br>.18<br>.18 | .014<br>.36<br>.36  | .344<br>8.74<br>8.74   | 35<br>115<br>115 | 63<br>207<br>207 |                     |               |                  |                |
|                                                                                                                          |             | 83715                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 15            | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8  | 19.6<br>93.5<br>187.0  | 8.9<br>42.5<br>85.0     | .007<br>.18<br>.18 | .014<br>.36<br>.36  | .407<br>10.34<br>10.34 | 35<br>115<br>115 | 63<br>207<br>207 |                     |               |                  |                |
|                                                                                                                          |             | 83719                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 19            | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8  | 23.5<br>113.0<br>226.0 | 10.7<br>51.4<br>102.7   | .007<br>.18<br>.18 | .014<br>.36<br>.36  | .403<br>10.24<br>10.24 | 35<br>115<br>115 | 63<br>207<br>207 |                     |               |                  |                |

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary ±10% from length shown.

## High-Temperature

Unshielded

Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**20 AWG** Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled

### Tefzel® Insulation • Clear Tefzel Jacket

300V RMS 150°C  
VW-1

**85220**

2

Black,  
Red

100  
1000<sup>†</sup>

30.5  
304.8

3.8  
24.0

1.7  
10.9

.015

.38

.020

.51

.185

4.70



**16 AWG** Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled

### Tefzel Insulation • Clear Tefzel Jacket

300V RMS 150°C  
VW-1

**85221**  
new

2

Black,  
Red

500<sup>†</sup>  
1000<sup>†</sup>

152.4  
304.8

17.0  
35.0

7.7  
15.9

.015

.38

.019

.48

.211

5.36



**85102**

2

See  
Chart 2  
(Tech Info  
Section)

500<sup>†</sup>  
1000<sup>†</sup>

152.4  
304.8

16.0  
33.0

7.3  
15.0

.015

.38

.019

.48

.211

5.36

**85103**

3

See  
Chart 2  
(Tech Info  
Section)

500<sup>†</sup>  
1000<sup>†</sup>

152.4  
304.8

22.0  
43.0

10.0  
19.5

.015

.38

.019

.48

.223

5.76

**85105**

5

See  
Chart 2  
(Tech Info  
Section)

500<sup>†</sup>  
1000<sup>†</sup>

152.4  
304.8

36.5  
68.0

16.6  
30.9

.015

.38

.019

.48

.268

6.81

**85107**

7

See  
Chart 2  
(Tech Info  
Section)

100  
1000<sup>†</sup>

30.5  
304.8

11.5  
105.0

5.2  
47.7

.015

.38

.024

.61

.303

7.70

**85109**

9

See  
Chart 2  
(Tech Info  
Section)

500<sup>†</sup>  
1000<sup>†</sup>

152.4  
304.8

59.0  
116.0

26.8  
52.7

.015

.38

.024

.61

.354

8.99

<sup>†</sup> Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

Tefzel insulated and jacketed cables are particularly well suited for harsh environments due to outstanding mechanical toughness of the material, as well as its high-temperature and radiation resistant characteristics.

Tefzel cables are used extensively in chemical plants, nuclear plants, and fossil fuel power plants. Typical applications are data recording, communication, telemetering, and monitoring pressure or material flow.

Tefzel is a DuPont trademark.



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## High-Temperature

Overall Beldfoil® Shield  
Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG Stranded (7x30) • Tinned Copper • Conductors Cabled • 22 AWG (7x30) Stranded TC Drain Wire • 100% Special Beldfoil Shield**

| FEP Insulation • Red Silicone Rubber Jacket • Noise Reducing Tape                                                                                 |              |  |   |                 |                    |         |      |     |      |     |      |     |      |      |    |    |    |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-----------------|--------------------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| Jacket working voltage<br>2000V DC, shield to ground<br>VW-1<br> | <b>83394</b> |  | 2 | Black,<br>White | 100                | 30.5    | 3.6  | 1.6 | .015 | .38 | .030 | .76 | .199 | 5.05 | 22 | 72 | 40 | 131 |
|                                                                                                                                                   |              |  |   |                 | U-500 <sup>†</sup> | U-152.4 | 14.5 | 6.6 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                   |              |  |   |                 | 500 <sup>†</sup>   | 152.4   | 16.5 | 7.5 |      |     |      |     |      |      |    |    |    |     |

70°C (min.) to 150°C (max.) operating temperature.

|                                                                                                                                                   |              |  |   |                         |                    |         |      |     |      |     |      |     |      |      |    |    |    |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-------------------------|--------------------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| Jacket working voltage<br>2000V DC, shield to ground<br>VW-1<br> | <b>83395</b> |  | 3 | Black,<br>Red,<br>White | 100                | 30.5    | 3.9  | 1.8 | .015 | .38 | .031 | .79 | .208 | 5.28 | 22 | 72 | 40 | 131 |
|                                                                                                                                                   |              |  |   |                         | U-500 <sup>†</sup> | U-152.4 | 18.0 | 8.2 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                   |              |  |   |                         | 500 <sup>†</sup>   | 152.4   | 19.5 | 8.9 |      |     |      |     |      |      |    |    |    |     |

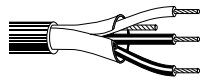
70°C (min.) to 150°C (max.) operating temperature.

**20 AWG Stranded (7x28) • Tinned Copper • Twisted Pair • 20 AWG (7x28) Stranded TC Drain Wire • 100% Special Beldfoil Shield**

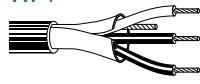
| FEP Insulation • Yellow Silicone Rubber Jacket • Noise Reducing Tape                                                                               |              |  |   |               |                  |         |      |     |      |     |      |     |      |      |    |    |    |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|---|---------------|------------------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| Jacket working voltage<br>2000V DC, shield to ground<br>VW-1<br> | <b>83393</b> |  | 2 | Black,<br>Red | 100 <sup>†</sup> | 30.5    | 4.6  | 2.1 | .020 | .51 | .030 | .76 | .242 | 6.15 | 22 | 72 | 40 | 131 |
|                                                                                                                                                    |              |  |   |               | U-500            | U-152.4 | 18.5 | 8.4 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                    |              |  |   |               | 500 <sup>†</sup> | 152.4   | 19.0 | 8.6 |      |     |      |     |      |      |    |    |    |     |

70°C (min.) to 150°C (max.) operating temperature.

**20 AWG Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled • Drain Wire • Overall 100% Beldfoil Aluminum-Kapton® Shield**

| Tefzel® Insulation • Clear Tefzel Jacket                                                                      |              |  |   |                         |                   |       |      |      |      |     |      |     |      |      |   |   |   |   |
|---------------------------------------------------------------------------------------------------------------|--------------|--|---|-------------------------|-------------------|-------|------|------|------|-----|------|-----|------|------|---|---|---|---|
| 300V RMS 150°C<br>VW-1<br> | <b>85230</b> |  | 2 | Black,<br>Red           | 500 <sup>†</sup>  | 152.4 | 14.5 | 6.6  | .015 | .38 | .020 | .51 | .182 | 4.62 | — | — | — | — |
|                                                                                                               |              |  |   |                         | 1000 <sup>†</sup> | 304.8 | 30.0 | 13.6 |      |     |      |     |      |      |   |   |   |   |
|                                                                                                               |              |  |   |                         |                   |       |      |      |      |     |      |     |      |      |   |   |   |   |
| 300V RMS 150°C<br>VW-1<br> | <b>85240</b> |  | 3 | Black,<br>Red,<br>Green | 100               | 30.5  | 4.6  | 2.1  | .015 | .38 | .020 | .51 | .193 | 4.90 | — | — | — | — |
|                                                                                                               |              |  |   |                         | 1000 <sup>†</sup> | 304.8 | 32.0 | 14.5 |      |     |      |     |      |      |   |   |   |   |
|                                                                                                               |              |  |   |                         |                   |       |      |      |      |     |      |     |      |      |   |   |   |   |

**16 AWG Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled • Drain Wire • Overall 100% Beldfoil Aluminum-Kapton Shield**

| Tefzel Insulation • Clear Tefzel Jacket                                                                       |              |  |   |                         |                   |       |      |      |      |     |      |     |      |      |   |   |   |   |
|---------------------------------------------------------------------------------------------------------------|--------------|--|---|-------------------------|-------------------|-------|------|------|------|-----|------|-----|------|------|---|---|---|---|
| 300V RMS 150°C<br>VW-1<br> | <b>85231</b> |  | 2 | Black,<br>Red           | 100               | 30.5  | 5.6  | 2.5  | .020 | .51 | .020 | .51 | .210 | 5.33 | — | — | — | — |
|                                                                                                               |              |  |   |                         | 500 <sup>†</sup>  | 152.4 | 19.0 | 8.6  |      |     |      |     |      |      |   |   |   |   |
|                                                                                                               |              |  |   |                         | 1000 <sup>†</sup> | 304.8 | 39.0 | 17.7 |      |     |      |     |      |      |   |   |   |   |
| 300V RMS 150°C<br>VW-1<br> | <b>85241</b> |  | 3 | Black,<br>Red,<br>Green | 500 <sup>†</sup>  | 152.4 | 24.5 | 11.1 | .020 | .51 | .020 | .51 | .223 | 5.66 | — | — | — | — |
|                                                                                                               |              |  |   |                         | 1000 <sup>†</sup> | 304.8 | 49.0 | 22.3 |      |     |      |     |      |      |   |   |   |   |
|                                                                                                               |              |  |   |                         |                   |       |      |      |      |     |      |     |      |      |   |   |   |   |

\*Capacitance between conductors. \*\*Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

Tefzel and Kapton are DuPont trademarks.

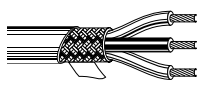
## High-Temperature

Overall Braid Shield — Control and Instrumentation Cables

MIL-W-16878/4 (Type E) — Individual Conductors

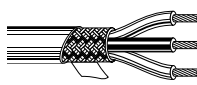
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**26 AWG** Stranded Conductors (7x34) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

| Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket                                                 |              |  |   |                                   |                                                           |                        |                    |                   |      |     |      |     |      |      |      |    |      |     |
|------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-----------------------------------|-----------------------------------------------------------|------------------------|--------------------|-------------------|------|-----|------|-----|------|------|------|----|------|-----|
| 600V RMS<br>-65°C to 200°C<br>VW-1<br> | <b>83303</b> |  | 1 | White                             | 500 <sup>†</sup><br>1000 <sup>†</sup>                     | 152.4<br>304.8         | 4.0<br>8.0         | 1.8<br>3.6        | .009 | .23 | .010 | .25 | .075 | 1.91 | —    | —  | 44.6 | 146 |
|                                                                                                                        | <b>83317</b> |  | 2 | White,<br>Black                   | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.0<br>7.5<br>13.0 | 0.9<br>3.4<br>5.9 | .009 | .23 | .010 | .25 | .108 | 2.74 | 20.8 | 68 | 35.5 | 116 |
|                                                                                                                        | <b>83332</b> |  | 3 | White,<br>Black,<br>Red           | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.4<br>7.5<br>17.0 | 1.1<br>3.4<br>7.7 | .009 | .23 | .010 | .25 | .122 | 3.10 | 18.8 | 62 | 31.4 | 103 |
|                                                                                                                        | <b>83347</b> |  | 4 | White,<br>Black,<br>Red,<br>Green | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.6<br>9.5<br>19.0 | 1.2<br>4.3<br>8.6 | .009 | .23 | .010 | .25 | .131 | 3.33 | 18.5 | 61 | 30.5 | 100 |

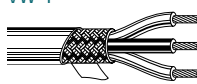
MIL-Spec MIL-W-16878/4 (Type E).

**24 AWG** Stranded Conductors (19x36) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

| Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket                                                   |              |  |   |                                   |                                                           |                        |                     |                    |      |     |      |     |      |      |      |    |      |     |
|-------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-----------------------------------|-----------------------------------------------------------|------------------------|---------------------|--------------------|------|-----|------|-----|------|------|------|----|------|-----|
| 600V RMS<br>-65°C to 200°C<br>VW-1<br> | <b>83304</b> |  | 1 | White                             | 500 <sup>†</sup><br>1000 <sup>†</sup>                     | 152.4<br>304.8         | 4.5<br>8.0          | 2.0<br>3.6         | .010 | .25 | .010 | .25 | .082 | 2.08 | —    | —  | 46   | 151 |
|                                                                                                                         | <b>83318</b> |  | 2 | White,<br>Black                   | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.3<br>7.5<br>16.0  | 1.0<br>3.4<br>7.3  | .010 | .25 | .010 | .25 | .128 | 3.25 | 26.5 | 87 | 42.4 | 139 |
|                                                                                                                         | <b>83333</b> |  | 3 | White,<br>Black,<br>Red           | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.7<br>7.5<br>20.0  | 1.2<br>4.5<br>9.1  | .010 | .25 | .010 | .25 | .134 | 3.40 | 21.9 | 72 | 36.8 | 121 |
|                                                                                                                         | <b>83348</b> |  | 4 | White,<br>Black,<br>Red,<br>Green | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 3.1<br>12.0<br>24.0 | 1.4<br>5.5<br>10.9 | .010 | .25 | .010 | .25 | .146 | 3.70 | 21.9 | 72 | 36.8 | 121 |

Complies with MIL-W-16878/4 (Type E) except stranding.

**22 AWG** Stranded Conductors (19x34) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

| Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket                                                    |              |  |   |                                   |                                                           |                        |                     |                    |      |     |      |     |      |      |      |    |      |     |
|--------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-----------------------------------|-----------------------------------------------------------|------------------------|---------------------|--------------------|------|-----|------|-----|------|------|------|----|------|-----|
| 600V RMS<br>-65°C to 200°C<br>VW-1<br> | <b>83305</b> |  | 1 | White                             | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 1.1<br>5.5<br>10.0  | 0.5<br>2.5<br>4.5  | .010 | .25 | .010 | .25 | .087 | 2.21 | —    | —  | 57.9 | 190 |
|                                                                                                                          | <b>83319</b> |  | 2 | White,<br>Black                   | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.6<br>9.5<br>19.0  | 1.2<br>4.3<br>8.6  | .010 | .25 | .010 | .25 | .140 | 3.56 | 29.9 | 98 | 49.2 | 161 |
|                                                                                                                          | <b>83334</b> |  | 3 | White,<br>Black,<br>Red           | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.5<br>12.0<br>25.0 | 1.1<br>5.5<br>11.4 | .010 | .25 | .010 | .25 | .147 | 3.73 | 27.4 | 90 | 45.7 | 150 |
|                                                                                                                          | <b>83349</b> |  | 4 | White,<br>Black,<br>Red,<br>Green | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 3.6<br>14.5<br>29.0 | 1.6<br>6.6<br>13.2 | .010 | .25 | .010 | .25 | .160 | 4.06 | 27.4 | 90 | 45.7 | 150 |

Complies with MIL-W-16878/4 (Type E) except stranding.

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.



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1-800-527-0010

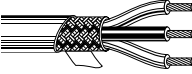
## High-Temperature

Overall Braid Shield — Control and Instrumentation Cables

MIL-W-16878/4 (Type E) — Individual Conductors

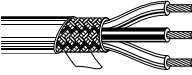
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**20 AWG** Stranded Conductors (19x32) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

| Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket                                                  |              |  |   |                                   |                                                           |                        |                     |                    |      |     |      |     |      |      |      |     |    |     |
|-------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-----------------------------------|-----------------------------------------------------------|------------------------|---------------------|--------------------|------|-----|------|-----|------|------|------|-----|----|-----|
| 600V RMS<br>-65°C to 200°C<br>VW-1<br> | <b>83306</b> |  | 1 | White                             | 100 <sup>†</sup><br>1000 <sup>†</sup>                     | 30.5<br>304.8          | 1.3<br>10.0         | 0.6<br>4.5         | .010 | .25 | .010 | .25 | .096 | 2.44 | —    | —   | 69 | 226 |
|                                                                                                                         | <b>83320</b> |  | 2 | White,<br>Black                   | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 3.1<br>12.0<br>24.0 | 1.4<br>5.5<br>10.9 | .010 | .25 | .010 | .25 | .158 | 4.01 | 31.7 | 104 | 51 | 167 |
|                                                                                                                         | <b>83335</b> |  | 3 | White,<br>Black,<br>Red           | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 3.0<br>16.5<br>31.0 | 1.4<br>7.5<br>14.1 | .010 | .25 | .010 | .25 | .167 | 4.24 | 31.7 | 104 | 51 | 167 |
|                                                                                                                         | <b>83350</b> |  | 4 | White,<br>Black,<br>Red,<br>Green | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 4.7<br>20.0<br>38.0 | 2.1<br>9.1<br>17.3 | .010 | .25 | .010 | .25 | .182 | 4.62 | 31.7 | 104 | 51 | 167 |

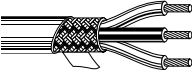
MIL-Spec MIL-W-16878/4 (Type E) except stranding.

**18 AWG** Stranded Conductors (19x30) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

| Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket                                                    |              |  |   |                                   |                                                           |                        |                     |                     |      |     |      |     |      |      |    |     |      |     |
|--------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-----------------------------------|-----------------------------------------------------------|------------------------|---------------------|---------------------|------|-----|------|-----|------|------|----|-----|------|-----|
| 600V RMS<br>-65°C to 200°C<br>VW-1<br> | <b>83307</b> |  | 1 | White                             | 1000 <sup>†</sup>                                         | 304.8                  | 17.0                | 7.7                 | .011 | .28 | .010 | .25 | .110 | 2.79 | —  | —   | 71.5 | 235 |
|                                                                                                                          | <b>83321</b> |  | 2 | White,<br>Black                   | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 3.9<br>16.0<br>31.0 | 1.8<br>7.3<br>14.1  | .011 | .28 | .010 | .25 | .183 | 4.65 | 31 | 102 | 52.8 | 174 |
|                                                                                                                          | <b>83336</b> |  | 3 | White,<br>Black,<br>Red           | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 4.9<br>21.0<br>44.0 | 2.2<br>9.5<br>20.0  | .011 | .28 | .010 | .25 | .188 | 4.78 | 31 | 102 | 52.8 | 174 |
|                                                                                                                          | <b>83351</b> |  | 4 | White,<br>Black,<br>Red,<br>Green | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 5.9<br>26.5<br>54.0 | 2.7<br>12.0<br>24.5 | .011 | .28 | .010 | .25 | .206 | 5.23 | 31 | 102 | 52.8 | 174 |

Complies with MIL-W-16878/4 (Type E) except stranding.

**16 AWG** Stranded Conductors (19x29) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

| Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket                                                     |              |  |   |                                   |                                                           |                        |                     |                     |      |     |      |     |      |      |      |     |      |     |
|---------------------------------------------------------------------------------------------------------------------------|--------------|--|---|-----------------------------------|-----------------------------------------------------------|------------------------|---------------------|---------------------|------|-----|------|-----|------|------|------|-----|------|-----|
| 600V RMS<br>-65°C to 200°C<br>VW-1<br> | <b>83308</b> |  | 1 | White                             | 500 <sup>†</sup><br>1000 <sup>†</sup>                     | 152.4<br>304.8         | 11.0<br>21.0        | 5.0<br>9.5          | .012 | .30 | .010 | .25 | .117 | 2.97 | —    | —   | 72.5 | 238 |
|                                                                                                                           | <b>83322</b> |  | 2 | White,<br>Black                   | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 4.3<br>18.0<br>35.0 | 2.0<br>8.2<br>15.9  | .012 | .30 | .010 | .25 | .192 | 4.62 | 36   | 118 | 60   | 197 |
|                                                                                                                           | <b>83337</b> |  | 3 | White,<br>Black,<br>Red           | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 6.8<br>25.0<br>51.0 | 3.1<br>11.4<br>23.2 | .012 | .30 | .010 | .25 | .203 | 5.16 | 30.7 | 101 | 53   | 174 |
|                                                                                                                           | <b>83352</b> |  | 4 | White,<br>Black,<br>Red,<br>Green | 100 <sup>†</sup><br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 7.3<br>31.0<br>61.0 | 3.3<br>14.1<br>27.7 | .012 | .30 | .010 | .25 | .223 | 5.66 | 30.2 | 99  | 50.8 | 167 |

Complies with MIL-W-16878/4 (Type E) except stranding.

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup> Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

## Fire Alarm

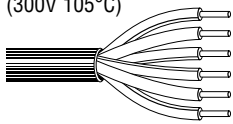
Power-Limited Fire Protective Signaling Circuit Cables  
Subject 1424 (NEC Article 760, Type FPLR)

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

### 22 AWG Solid Conductors • Tinned Copper • Conductors Cabled

#### PVC Insulation • Black PVC Jacket

|                                   |      |                                          |   |                                          |                 |                    |              |             |             |             |              |
|-----------------------------------|------|------------------------------------------|---|------------------------------------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|
| UL AWM Style 2464<br>(300V 105°C) | 9576 | NEC:<br>MPR, FPLR<br>CEC:<br>FAS 105 FT4 | 6 | See<br>Chart 1<br>(Tech Info<br>Section) | U-500<br>U-1000 | U-152.4<br>U-304.8 | 18.0<br>36.0 | 8.2<br>16.4 | .013<br>.33 | .039<br>.99 | .234<br>5.94 |
|-----------------------------------|------|------------------------------------------|---|------------------------------------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|



### 18 AWG Solid Conductors • Bare Copper

#### PVC Insulation • Red PVC Jacket

|                                   |      |                                          |   |               |                 |                    |              |             |             |             |              |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|
| UL AWM Style 2464<br>(300V 105°C) | 9571 | NEC:<br>MPR, FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | U-500<br>U-1000 | U-152.4<br>U-304.8 | 14.5<br>28.0 | 6.6<br>12.8 | .017<br>.43 | .037<br>.94 | .228<br>5.79 |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|



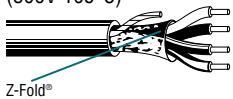
### 18 AWG Solid Conductors • Bare Copper • Conductors Cabled • Overall 100% Beldfoil® Shield • 22 AWG Stranded Tinned Copper Drain Wire

#### PVC Insulation • Red PVC Jacket

|                                   |      |                                          |   |               |                 |                    |              |             |             |             |              |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|
| UL AWM Style 2464<br>(300V 105°C) | 9574 | NEC:<br>MPR, FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | U-500<br>U-1000 | U-152.4<br>U-304.8 | 16.5<br>32.0 | 7.5<br>14.6 | .017<br>.43 | .037<br>.94 | .231<br>5.87 |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|



|                                   |      |                                          |   |                                         |               |                  |              |              |             |             |              |
|-----------------------------------|------|------------------------------------------|---|-----------------------------------------|---------------|------------------|--------------|--------------|-------------|-------------|--------------|
| UL AWM Style 2464<br>(300V 105°C) | 9578 | NEC:<br>MPR, FPLR<br>CEC:<br>FAS 105 FT4 | 4 | Black,<br>Red,<br>Yellow,<br>Light Blue | U-500<br>1000 | U-152.4<br>304.8 | 25.5<br>51.0 | 11.6<br>23.2 | .017<br>.43 | .037<br>.94 | .263<br>6.68 |
|-----------------------------------|------|------------------------------------------|---|-----------------------------------------|---------------|------------------|--------------|--------------|-------------|-------------|--------------|



### 16 AWG Solid Conductors • Bare Copper • Conductors Cabled

#### PVC Insulation • Red PVC Jacket

|                                   |      |                                          |   |               |                 |                    |              |             |             |             |              |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|
| UL AWM Style 2464<br>(300V 105°C) | 9572 | NEC:<br>MPR, FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | U-500<br>U-1000 | U-152.4<br>U-304.8 | 18.5<br>36.0 | 8.4<br>16.4 | .018<br>.46 | .037<br>.94 | .250<br>6.35 |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|



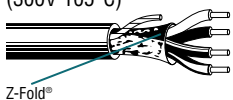
### 16 AWG Solid Conductors • Bare Copper • Conductors Cabled • Overall 100% Beldfoil® Shield • 22 AWG Stranded Tinned Copper Drain Wire

#### PVC Insulation • Red PVC Jacket

|                                   |      |                                          |   |               |                 |                    |              |             |             |             |              |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|
| UL AWM Style 2464<br>(300V 105°C) | 9575 | NEC:<br>MPR, FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | U-500<br>U-1000 | U-152.4<br>U-304.8 | 20.5<br>41.0 | 9.3<br>18.7 | .018<br>.46 | .037<br>.94 | .253<br>6.43 |
|-----------------------------------|------|------------------------------------------|---|---------------|-----------------|--------------------|--------------|-------------|-------------|-------------|--------------|



|                                   |      |                                          |   |                                         |               |                  |              |              |             |              |              |
|-----------------------------------|------|------------------------------------------|---|-----------------------------------------|---------------|------------------|--------------|--------------|-------------|--------------|--------------|
| UL AWM Style 2464<br>(300V 105°C) | 9579 | NEC:<br>MPR, FPLR<br>CEC:<br>FAS 105 FT4 | 4 | Black,<br>Red,<br>Yellow,<br>Light Blue | U-500<br>1000 | U-152.4<br>304.8 | 36.0<br>72.0 | 16.4<br>32.8 | .018<br>.46 | .042<br>1.07 | .301<br>7.65 |
|-----------------------------------|------|------------------------------------------|---|-----------------------------------------|---------------|------------------|--------------|--------------|-------------|--------------|--------------|



All cables on this page pass the UL 70,000 BTU Flame Test (comparable to IEEE 383 Flame Test) and are listed by the California State Fire Marshall. Component Recognized UL2464, 300V 80°C.



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## Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables  
Subject 1424 (NEC Article 760, Type FPLR)

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

### 14 AWG Solid Conductors • Bare Copper

#### PVC Insulation • Red PVC Jacket

|            |      |                                     |   |               |               |                  |              |              |             |              |              |
|------------|------|-------------------------------------|---|---------------|---------------|------------------|--------------|--------------|-------------|--------------|--------------|
| 300V 105°C | 9580 | NEC:<br>FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | U-500<br>1000 | U-152.4<br>304.8 | 28.0<br>56.0 | 12.7<br>25.5 | .022<br>.56 | .042<br>1.07 | .306<br>7.77 |
|------------|------|-------------------------------------|---|---------------|---------------|------------------|--------------|--------------|-------------|--------------|--------------|



### 14 AWG Solid Conductors • Bare Copper • Conductors Cabled • 100% Beldfoil® Shield • 16 AWG Stranded Tinned Copper Drain Wire

#### PVC Insulation • Red PVC Jacket

|            |      |                                     |   |               |               |                  |              |              |             |              |              |
|------------|------|-------------------------------------|---|---------------|---------------|------------------|--------------|--------------|-------------|--------------|--------------|
| 300V 105°C | 9581 | NEC:<br>FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | U-500<br>1000 | U-152.4<br>304.8 | 33.0<br>65.0 | 15.0<br>29.6 | .022<br>.56 | .042<br>1.07 | .309<br>7.85 |
|------------|------|-------------------------------------|---|---------------|---------------|------------------|--------------|--------------|-------------|--------------|--------------|



### 12 AWG Solid Conductors • Bare Copper

#### PVC Insulation • Red PVC Jacket

|            |      |                                     |   |               |      |       |      |      |             |              |              |
|------------|------|-------------------------------------|---|---------------|------|-------|------|------|-------------|--------------|--------------|
| 300V 105°C | 9582 | NEC:<br>FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | 1000 | 304.8 | 75.0 | 34.2 | .022<br>.56 | .042<br>1.07 | .340<br>8.64 |
|------------|------|-------------------------------------|---|---------------|------|-------|------|------|-------------|--------------|--------------|



### 12 AWG Solid Conductors • Bare Copper • Conductors Cabled • 100% Beldfoil Shield • 16 AWG Stranded Tinned Copper Drain Wire

#### PVC Insulation • Red PVC Jacket

|            |      |                                     |   |               |      |       |      |      |             |              |              |
|------------|------|-------------------------------------|---|---------------|------|-------|------|------|-------------|--------------|--------------|
| 300V 105°C | 9583 | NEC:<br>FPLR<br>CEC:<br>FAS 105 FT4 | 2 | Black,<br>Red | 1000 | 304.8 | 85.0 | 38.7 | .022<br>.56 | .042<br>1.07 | .343<br>8.71 |
|------------|------|-------------------------------------|---|---------------|------|-------|------|------|-------------|--------------|--------------|



Z-Fold®

All cables on this page pass the UL 70,000 BTU Flame Test (comparable to IEEE 383 Flame Test) and are listed by the California State Fire Marshall. Component Recognized UL2464, 300V 80°C.



## Plenum-Rated Fire Alarm

Power-Limited Fire Protective, Control and Instrumentation Cables

Subject 1424 (NEC Article 760, Type FPLP)

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**14 AWG** Stranded Conductors (7x22) • Tinned Copper • Conductors Cabled • 100% Beldfoil® + 85% Tinned Copper Braid Shield

| Plenum • FEP Insulation • Red FEP Jacket                                         |                    |              |                                      |   |                                          |                                              |                        |                       |                     |                     |                     |                  |           |  |  |  |  |  |
|----------------------------------------------------------------------------------|--------------------|--------------|--------------------------------------|---|------------------------------------------|----------------------------------------------|------------------------|-----------------------|---------------------|---------------------|---------------------|------------------|-----------|--|--|--|--|--|
|  | 200°C, Non-conduit | <b>83752</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 2 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 7.1<br>33.0<br>60.0   | 3.2<br>15.0<br>27.4 | .016<br>.41<br>.015 | .38<br>.267<br>.284 | 6.78<br>30<br>98 | 52<br>171 |  |  |  |  |  |
|                                                                                  |                    | <b>83753</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 3 | See<br>Chart 2<br>(Tech Info<br>Section) | 500 <sup>†</sup><br>1000 <sup>†</sup>        | 152.4<br>304.8         | 44.0<br>82.0          | 20.1<br>37.4        | .016<br>.41<br>.015 | .38<br>.284<br>7.21 | 30<br>98         | 52<br>171 |  |  |  |  |  |
|                                                                                  |                    | <b>83754</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 4 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 11.6<br>54.0<br>102.0 | 5.3<br>24.6<br>46.5 | .016<br>.41<br>.015 | .38<br>.311<br>7.90 | 30<br>98         | 52<br>171 |  |  |  |  |  |
|                                                                                  |                    | <b>83756</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 6 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 15.9<br>74.5<br>150.0 | 7.2<br>34.0<br>68.4 | .016<br>.41<br>.017 | .43<br>.376<br>9.55 | 30<br>98         | 52<br>171 |  |  |  |  |  |

**12 AWG** Stranded Conductors (7x20) • Tinned Copper • Conductors Cabled • 100% Beldfoil + 85% Tinned Copper Braid Shield

| Plenum • FEP Insulation • Red FEP Jacket                                           |                    |              |                                      |   |                                          |                      |                        |                       |                     |                     |                      |           |           |  |  |  |  |  |
|------------------------------------------------------------------------------------|--------------------|--------------|--------------------------------------|---|------------------------------------------|----------------------|------------------------|-----------------------|---------------------|---------------------|----------------------|-----------|-----------|--|--|--|--|--|
|  | 200°C, Non-conduit | <b>83802</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 2 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500†<br>1000† | 30.5<br>152.4<br>304.8 | 9.3<br>42.5<br>80.0   | 4.3<br>19.4<br>36.5 | .016<br>.41<br>.015 | .38<br>.303<br>7.70  | 32<br>105 | 55<br>180 |  |  |  |  |  |
|                                                                                    |                    | <b>83803</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 3 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500†<br>1000† | 30.5<br>152.4<br>304.8 | 12.4<br>56.5<br>111.0 | 5.7<br>25.8<br>50.6 | .016<br>.41<br>.015 | .38<br>.323<br>8.20  | 32<br>105 | 55<br>180 |  |  |  |  |  |
|                                                                                    |                    | <b>83804</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 4 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500†<br>1000† | 30.5<br>152.4<br>304.8 | 15.6<br>73.0<br>147.0 | 7.1<br>33.3<br>66.8 | .016<br>.41<br>.017 | .43<br>.359<br>9.12  | 32<br>105 | 55<br>180 |  |  |  |  |  |
|                                                                                    |                    | <b>83806</b> | NEC:<br>FPLP, CMP<br>CEC:<br>CMP FT6 | 6 | See<br>Chart 2<br>(Tech Info<br>Section) | 100<br>500†<br>1000† | 30.5<br>152.4<br>304.8 | 21.7<br>99.0<br>213.0 | 9.9<br>45.0<br>96.8 | .016<br>.41<br>.017 | .43<br>.430<br>10.92 | 32<br>105 | 55<br>180 |  |  |  |  |  |
|                                                                                    |                    |              |                                      |   |                                          |                      |                        |                       |                     |                     |                      |           |           |  |  |  |  |  |

All cables on this page pass the UL 70,000 BTU Flame Test (comparable to IEEE 383 Flame Test) and are listed by the California State Fire Marshall. Component Recognized UL2464, 300V 80°C.

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary ±10% from length shown.



By:



INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

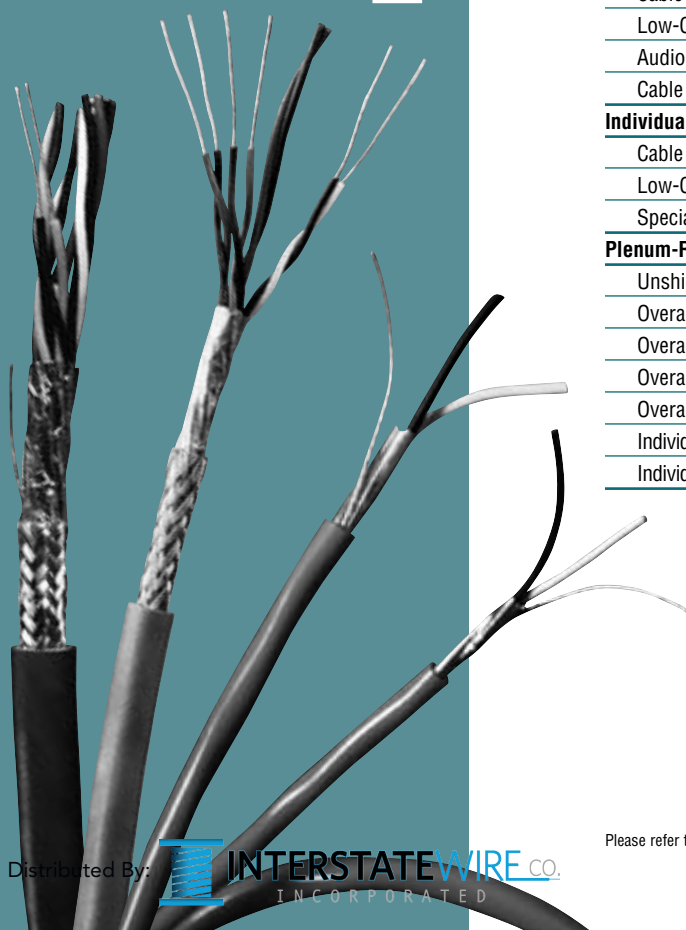
1-800-527-0010



# Paired Cables

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## Introduction

Belden® paired cable products are manufactured in a variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions to meet the technical requirements of many different types of systems.

Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than multi-conductor cables.

As an aid to proper cable selection, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable paired cable selection.

Most of our paired cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a paired cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Paired Cables Packaging

Belden's unique UnReel® cable dispenser is available for many of the paired cable products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.



By:



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

# Selection Guide

Shielded Multi-Pair Computer Cables

RS-232, RS-422, and RS-485 Applications\*

| Specifications                     |                    | Cable Series** |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |
|------------------------------------|--------------------|----------------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
|                                    |                    | 9804           | 8132 | 9829 | 8332 | 9501 | 8102 | 9729 | 8162 | 9990 | 9841 | 9680 | 9302* | 8302 | 8777 | 9873 | 9773 |
| <b>Conductor Size:</b><br>(AWG)    | 28                 | ✓              | ✓    |      |      |      |      |      |      |      |      |      |       |      |      |      |      |
|                                    | 24                 |                |      | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |       |      |      |      |      |
|                                    | 22                 |                |      |      |      |      |      |      |      |      |      |      | ✓     | ✓    | ✓    |      |      |
|                                    | 20                 |                |      |      |      |      |      |      |      |      |      |      |       |      |      | ✓    |      |
|                                    | 18                 |                |      |      |      |      |      |      |      |      |      |      |       |      |      |      | ✓    |
| Page No.                           |                    | 5.26           | 5.27 | 5.30 | 5.29 | 5.11 | 5.31 | 5.35 | 5.44 | 5.37 | 5.28 | 5.15 | 5.17  | 5.32 | 5.40 | 5.42 | 5.42 |
| <b>Insulation:</b>                 | S-R PVC            |                |      |      | ✓    | ✓    |      |      |      |      |      |      |       | ✓    |      |      |      |
|                                    | Polyethylene       |                |      | ✓    |      |      |      |      |      | ✓    | ✓    | ✓    |       |      |      | ✓    | ✓    |
|                                    | Polypropylene      | ✓              |      |      |      |      |      |      |      |      |      |      |       |      | ✓    |      |      |
|                                    | Datalene®†         |                | ✓    |      |      |      | ✓    | ✓    | ✓    |      |      |      |       |      |      |      |      |
| <b>Shield:</b>                     | Overall Foil       |                |      |      |      | ✓    |      |      |      |      |      | ✓    | ✓     |      |      |      |      |
|                                    | Individual Foil    |                |      |      |      |      |      | ✓    | ✓    | ✓    |      |      |       |      | ✓    | ✓    | ✓    |
|                                    | Overall Foil/Braid | ✓              | ✓    | ✓    | ✓    |      | ✓    |      | ✓    |      | ✓    |      |       | ✓    |      |      |      |
|                                    | Braid Coverage     | 90%            | 65%  | 65%  | 65%  |      | 65%  |      | 65%  |      | 90%  |      |       | 65%  |      |      |      |
| <b>Drain Wire:</b> (see key below) |                    | ●              | ●    | ●    | ×    | ●    | ●    | ▲    | ▲    | ▲    | ●    | ●    | ●     | ×    | ▲    | ▲    | ▲    |
| <b>No. of Pairs Available:</b>     | 1                  |                |      |      |      | ✓    |      |      |      |      | ✓    |      |       |      |      |      |      |
|                                    | 2                  | ✓              | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |      | ✓    |      | ✓     | ✓    |      |      |      |
|                                    | 3                  | ✓              | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |       | ✓    | ✓    | ✓    | ✓    |
|                                    | 4                  | ✓              | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |      | ✓    | ✓    | ✓     | ✓    |      |      |      |
|                                    | 5                  | ✓              | ✓    | ✓    | ✓    | ✓    | ✓    |      | ✓    |      |      |      |       | ✓    |      |      |      |
|                                    | 6                  |                |      | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |      | ✓    | ✓     | ✓    | ✓    | ✓    | ✓    |
|                                    | 7                  | ✓              |      | ✓    | ✓    | ✓    | ✓    |      | ✓    |      |      |      |       | ✓    |      |      |      |
|                                    | 8                  |                | ✓    |      |      | ✓    | ✓    |      | ✓    |      |      |      |       | ✓    |      |      |      |
|                                    | 9                  | ✓              |      | ✓    |      | ✓    |      | ✓    |      | ✓    |      | ✓    | ✓     |      | ✓    | ✓    | ✓    |
|                                    | 10                 |                |      | ✓    | ✓    | ✓    | ✓    |      | ✓    |      |      |      |       | ✓    |      |      |      |
|                                    | 11                 |                |      |      |      |      |      | ✓    |      |      |      |      |       |      | ✓    | ✓    |      |
|                                    | 12                 | ✓              |      | ✓    |      |      |      | ✓    |      | ✓    |      |      |       |      | ✓    | ✓    | ✓    |
|                                    | 12.5               |                | ✓    |      | ✓    |      | ✓    |      |      |      |      | ✓    |       | ✓    |      |      |      |
|                                    | 13                 | ✓              |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |
|                                    | 15                 |                |      |      | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |      | ✓     | ✓    | ✓    | ✓    | ✓    |
|                                    | 17                 |                |      |      |      |      |      | ✓    |      |      |      |      |       |      | ✓    |      |      |
|                                    | 18                 | ✓              | ✓    | ✓    | ✓    |      | ✓    |      | ✓    |      |      |      |       | ✓    |      |      |      |
|                                    | 19                 |                |      |      |      | ✓    |      | ✓    |      |      |      |      | ✓     |      | ✓    |      |      |
|                                    | 25                 | ✓              | ✓    | ✓    | ✓    | ✓    | ✓    |      | ✓    | ✓    |      |      |       | ✓    |      |      |      |
|                                    | 27                 |                |      |      |      |      |      | ✓    |      |      |      |      | ✓     |      | ✓    |      |      |
|                                    | 31                 | ✓              |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |
|                                    | 37                 |                |      |      |      |      |      |      |      |      |      |      |       |      | ✓    |      |      |
|                                    | 50                 |                |      |      |      | ✓    |      |      |      |      |      |      |       |      |      |      |      |
| <b>Capacitance</b> †† (pF/ft.)     |                    | 15.5           | 11.0 | 15.5 | 30.0 | 30.0 | 12.5 | 12.5 | 12.5 | 25.0 | 12.8 | 15.5 | 35.0  | 35.0 | 30.0 | 30.0 | 30.0 |

S-R = Semi-rigid

\*Refer to specifications for recommendations.

\*\*All cables are UL-listed.

† Foam high density polyethylene.

†† Capacitance may vary on some cables.

♦ Standard PVC Insulation, solid conductors.

## Drain Wire Key:

● = Drain wire overall.

▲ = Drain wire each pair.

× = No drain wire.

# Unshielded

Telephone Cables

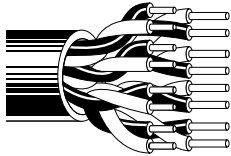
Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

## 24 AWG Solid Conductors • Tinned Copper • Twisted Pairs

### PVC Insulation • Chrome PVC Jacket

UL AWM Style 2576  
(150V 80°C)

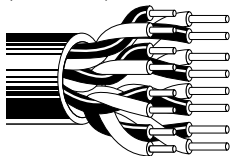


|             |         |    |            |        |         |       |      |      |     |      |      |      |       |
|-------------|---------|----|------------|--------|---------|-------|------|------|-----|------|------|------|-------|
| <b>9562</b> | NEC:    | 2  | See        | U-500  | U-152.4 | 10.0  | 4.5  | .010 | .25 | .032 | .81  | .199 | 5.05  |
|             | CMG     |    | Chart 4    | 500    | 152.4   | 11.0  | 5.0  |      |     |      |      |      |       |
|             | CEC:    |    | (Tech Info | U-1000 | U-304.8 | 20.0  | 9.1  |      |     |      |      |      |       |
|             | CMG FT4 |    | Section)   | 1000   | 304.8   | 21.0  | 9.5  |      |     |      |      |      |       |
| <b>9566</b> | NEC:    | 6  | See        | U-500  | U-152.4 | 22.0  | 10.0 | .010 | .25 | .032 | .81  | .289 | 7.34  |
|             | CMG     |    | Chart 4    | 500    | 152.4   | 22.5  | 10.2 |      |     |      |      |      |       |
|             | CEC:    |    | (Tech Info | U-1000 | U-304.8 | 43.0  | 19.5 |      |     |      |      |      |       |
|             | CMG FT4 |    | Section)   | 1000   | 304.8   | 45.0  | 20.5 |      |     |      |      |      |       |
| <b>9570</b> | NEC:    | 10 | See        | 500    | 152.4   | 30.5  | 13.9 | .010 | .25 | .035 | .89  | .310 | 7.87  |
|             | CMG     |    | Chart 4    | 1000   | 304.8   | 63.0  | 28.6 |      |     |      |      |      |       |
|             | CEC:    |    | (Tech Info |        |         |       |      |      |     |      |      |      |       |
|             | CMG FT4 |    | Section)   |        |         |       |      |      |     |      |      |      |       |
| <b>9585</b> | NEC:    | 25 | See        | 500    | 152.4   | 74.0  | 33.6 | .010 | .25 | .040 | 1.02 | .480 | 12.19 |
|             | CMG     |    | Chart 4    | 1000   | 304.8   | 144.0 | 65.5 |      |     |      |      |      |       |
|             | CEC:    |    | (Tech Info |        |         |       |      |      |     |      |      |      |       |
|             | CMG FT4 |    | Section)   |        |         |       |      |      |     |      |      |      |       |

## 22 AWG Solid Conductors • Tinned Copper • Twisted Pairs

### PVC Insulation • Chrome PVC Jacket

UL AWM Style 2576  
(150V 80°C)

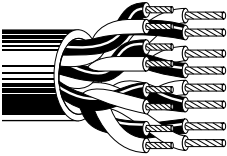


|             |          |   |            |        |         |      |      |      |     |      |     |      |      |
|-------------|----------|---|------------|--------|---------|------|------|------|-----|------|-----|------|------|
| <b>8740</b> | NEC:     | 1 | See        | U-500  | U-152.4 | 7.0  | 3.2  | .010 | .25 | .032 | .81 | .156 | 3.96 |
|             | CMG      |   | Chart 3    | U-1000 | U-304.8 | 13.0 | 5.9  |      |     |      |     |      |      |
|             | CEC:     |   | (Tech Info |        |         |      |      |      |     |      |     |      |      |
|             | CMG FT4  |   | Section)   |        |         |      |      |      |     |      |     |      |      |
| <b>8741</b> | NEC:     | 2 | See        | U-500  | U-152.4 | 13.0 | 5.9  | .010 | .25 | .032 | .81 | .230 | 5.84 |
|             | MPG, CMG |   | Chart 3    | U-1000 | U-304.8 | 26.0 | 11.8 |      |     |      |     |      |      |
|             | CEC:     |   | (Tech Info | 1000   | 304.8   | 25.0 | 11.4 |      |     |      |     |      |      |
|             | CMG FT4  |   | Section)   |        |         |      |      |      |     |      |     |      |      |
| <b>8742</b> | NEC:     | 3 | See        | 500    | 152.4   | 17.0 | 7.7  | .010 | .25 | .032 | .81 | .242 | 6.15 |
|             | MPG, CMG |   | Chart 3    | U-1000 | U-304.8 | 32.0 | 14.5 |      |     |      |     |      |      |
|             | CEC:     |   | (Tech Info | 1000   | 304.8   | 32.0 | 14.5 |      |     |      |     |      |      |
|             | CMG FT4  |   | Section)   |        |         |      |      |      |     |      |     |      |      |
| <b>8757</b> | NEC:     | 4 | See        | 500    | 152.4   | 20.0 | 9.1  | .010 | .25 | .032 | .81 | .264 | 6.71 |
|             | MPG, CMG |   | Chart 3    | U-1000 | U-304.8 | 39.0 | 17.7 |      |     |      |     |      |      |
|             | CEC:     |   | (Tech Info | 1000   | 304.8   | 40.0 | 18.2 |      |     |      |     |      |      |
|             | CMG FT4  |   | Section)   |        |         |      |      |      |     |      |     |      |      |
| <b>8743</b> | NEC:     | 6 | See        | U-500  | U-152.4 | 27.0 | 12.3 | .010 | .25 | .032 | .81 | .293 | 7.44 |
|             | MPG, CMG |   | Chart 3    | U-1000 | U-304.8 | 52.0 | 23.6 |      |     |      |     |      |      |
|             | CEC:     |   | (Tech Info | 1000   | 304.8   | 53.0 | 24.1 |      |     |      |     |      |      |
|             | CMG FT4  |   | Section)   |        |         |      |      |      |     |      |     |      |      |
| <b>9160</b> | NEC:     | 8 | See        | 500    | 152.4   | 34.5 | 15.7 | .010 | .25 | .035 | .89 | .323 | 8.20 |
|             | MPG, CMG |   | Chart 3    | 1000   | 304.8   | 71.0 | 32.3 |      |     |      |     |      |      |
|             | CEC:     |   | (Tech Info |        |         |      |      |      |     |      |     |      |      |
|             | CMG FT4  |   | Section)   |        |         |      |      |      |     |      |     |      |      |
| <b>8744</b> | NEC:     | 9 | See        | 1000   | 304.8   | 79.0 | 35.9 | .010 | .25 | .035 | .89 | .350 | 8.89 |
|             | MPG, CMG |   | Chart 3    |        |         |      |      |      |     |      |     |      |      |
|             | CEC:     |   | (Tech Info |        |         |      |      |      |     |      |     |      |      |
|             | CMG FT4  |   | Section)   |        |         |      |      |      |     |      |     |      |      |



# Unshielded

## Audio, Control and Instrumentation Cables

| Description                                                                       | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs                          | Color<br>Code                            | Standard Lengths |         | Standard<br>Unit Weight |      | Insulation<br>Thickness |      | Jacket<br>Thickness |      | Nominal OD |      |
|-----------------------------------------------------------------------------------|----------|------------------------------|------------------------------------------|------------------------------------------|------------------|---------|-------------------------|------|-------------------------|------|---------------------|------|------------|------|
|                                                                                   |          |                              |                                          |                                          | Ft.              | m       | Lbs.                    | kg   | Inch                    | mm   | Inch                | mm   | Inch       | mm   |
| 22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs                 |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| PVC Insulation • Chrome PVC Jacket                                                |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
|  | 9744     | NEC:                         | 2                                        | See<br>Chart 3<br>(Tech Info<br>Section) | U-500            | U-152.4 | 13.5                    | 6.1  | .010                    | .25  | .032                | .81  | .244       | 6.20 |
|                                                                                   |          | CMG                          |                                          |                                          | 500              | 152.4   | 14.0                    | 6.4  |                         |      |                     |      |            |      |
|                                                                                   |          | CEC:                         |                                          |                                          | U-1000           | U-304.8 | 26.0                    | 11.8 |                         |      |                     |      |            |      |
|                                                                                   | CMG FT4  | 1000                         | 304.8                                    | 27.0                                     | 12.3             |         |                         |      |                         |      |                     |      |            |      |
|                                                                                   | 9745     | NEC:                         | 3                                        | See<br>Chart 3<br>(Tech Info<br>Section) | U-500            | U-152.4 | 17.5                    | 8.0  | .010                    | .25  | .032                | .81  | .257       | 6.53 |
|                                                                                   |          | CMG                          |                                          |                                          | 500              | 152.4   | 18.0                    | 8.2  |                         |      |                     |      |            |      |
|                                                                                   |          | CEC:                         |                                          |                                          | U-1000           | U-304.8 | 35.0                    | 15.9 |                         |      |                     |      |            |      |
|                                                                                   | CMG FT4  | 1000                         | 304.8                                    | 36.0                                     | 16.4             |         |                         |      |                         |      |                     |      |            |      |
|                                                                                   | 9746     | NEC:                         | 4                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 500              | 152.4   | 21.5                    | 9.8  | .010                    | .25  | .032                | .81  | .281       | 7.14 |
|                                                                                   |          | CMG                          |                                          |                                          | 1000             | 304.8   | 42.0                    | 19.1 |                         |      |                     |      |            |      |
| CEC:                                                                              |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| CMG FT4                                                                           |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| 8747                                                                              | NEC:     | 6                            | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5             | 6.2     | 2.8                     | .010 | .25                     | .035 | .89                 | .320 | 8.13       |      |
|                                                                                   | CMG      |                              |                                          | 500                                      | 152.4            | 29.0    | 13.2                    |      |                         |      |                     |      |            |      |
|                                                                                   | CEC:     |                              |                                          | 1000                                     | 304.8            | 59.0    | 26.8                    |      |                         |      |                     |      |            |      |
| CMG FT4                                                                           |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| 8748                                                                              | NEC:     | 9                            | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5             | 8.6     | 3.9                     | .010 | .25                     | .037 | .94                 | .389 | 9.88       |      |
|                                                                                   | CMG      |                              |                                          | 500                                      | 152.4            | 43.5    | 19.8                    |      |                         |      |                     |      |            |      |
|                                                                                   | CEC:     |                              |                                          | 1000                                     | 304.8            | 84.0    | 38.2                    |      |                         |      |                     |      |            |      |
| CMG FT4                                                                           |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| 9747                                                                              | NEC:     | 12                           | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5             | 11.7    | 5.3                     | .010 | .25                     | .040 | 1.02                | .425 | 10.80      |      |
|                                                                                   | CMG      |                              |                                          | 500                                      | 152.4            | 55.0    | 25.0                    |      |                         |      |                     |      |            |      |
|                                                                                   | CEC:     |                              |                                          | 1000                                     | 304.8            | 109.0   | 49.5                    |      |                         |      |                     |      |            |      |
| CMG FT4                                                                           |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| 8749                                                                              | NEC:     | 15                           | See<br>Chart 3<br>(Tech Info<br>Section) | 500                                      | 152.4            | 64.0    | 29.1                    | .010 | .25                     | .040 | 1.02                | .440 | 11.18      |      |
|                                                                                   | CMG      |                              |                                          | 1000                                     | 304.8            | 124.0   | 56.4                    |      |                         |      |                     |      |            |      |
|                                                                                   | CEC:     |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| CMG FT4                                                                           |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| 9748                                                                              | NEC:     | 19                           | See<br>Chart 3<br>(Tech Info<br>Section) | 500                                      | 152.4            | 81.5    | 37.0                    | .010 | .25                     | .040 | 1.02                | .505 | 12.83      |      |
|                                                                                   | CMG      |                              |                                          | 1000                                     | 304.8            | 159.0   | 72.3                    |      |                         |      |                     |      |            |      |
|                                                                                   | CEC:     |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| CMG FT4                                                                           |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| 8750                                                                              | NEC:     | 27                           | See<br>Chart 3<br>(Tech Info<br>Section) | 500†                                     | 152.4            | 112.0   | 50.9                    | .010 | .25                     | .045 | 1.14                | .575 | 14.61      |      |
|                                                                                   | CMG      |                              |                                          | 1000†                                    | 304.8            | 221.0   | 100.5                   |      |                         |      |                     |      |            |      |
|                                                                                   | CEC:     |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |
| CMG FT4                                                                           |          |                              |                                          |                                          |                  |         |                         |      |                         |      |                     |      |            |      |

<sup>†</sup>Spools are one piece, but length may vary -0% to +20% from length shown.

# Unshielded

Audio, Control and Instrumentation Cables

Plenum-Rated

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs

| Plenum • FEP Insulation • Red FEP Jacket                                         |              |         |   |                                                                  |                   |       |      |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------|--------------|---------|---|------------------------------------------------------------------|-------------------|-------|------|------|------|-----|------|-----|------|------|
|  | <b>88442</b> | NEC:    | 1 | Black & Red                                                      | 100               | 30.5  | 2.3  | 1.0  | .006 | .15 | .012 | .30 | .102 | 2.59 |
|                                                                                  |              | CMP     |   |                                                                  | 500 <sup>†</sup>  | 152.4 | 5.5  | 2.5  |      |     |      |     |      |      |
|                                                                                  |              | CEC:    |   |                                                                  | 1000 <sup>†</sup> | 304.8 | 10.0 | 4.5  |      |     |      |     |      |      |
|                                                                                  |              | CMP FT6 |   |                                                                  |                   |       |      |      |      |     |      |     |      |      |
|  | <b>88741</b> | NEC:    | 2 | Black & Red,<br>Black & White                                    | 500 <sup>†</sup>  | 152.4 | 9.5  | 4.3  | .006 | .15 | .012 | .30 | .169 | 4.29 |
|                                                                                  |              | CMP     |   |                                                                  | 1000 <sup>†</sup> | 304.8 | 21.0 | 9.5  |      |     |      |     |      |      |
|                                                                                  |              | CEC:    |   |                                                                  |                   |       |      |      |      |     |      |     |      |      |
|                                                                                  |              | CMP FT6 |   |                                                                  |                   |       |      |      |      |     |      |     |      |      |
|  | <b>88757</b> | NEC:    | 4 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue | 500 <sup>†</sup>  | 152.4 | 16.0 | 7.3  | .006 | .15 | .019 | .23 | .200 | 5.08 |
|                                                                                  |              | CMP     |   |                                                                  | 1000 <sup>†</sup> | 304.8 | 33.0 | 15.0 |      |     |      |     |      |      |
|                                                                                  |              | CEC:    |   |                                                                  |                   |       |      |      |      |     |      |     |      |      |
|                                                                                  |              | CMP FT6 |   |                                                                  |                   |       |      |      |      |     |      |     |      |      |

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                               |                                    |         |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|------------------------------------|---------|---|-------------------------------------------------------------------------------------------------------|---------------------|---------|------|------|------|-----|------|-----|------|------|
|    | <b>82442</b><br><small>new</small> | NEC:    | 1 | Black & Red                                                                                           | U-1000 <sup>†</sup> | U-304.8 | 83.0 | 37.7 | .006 | .15 | .014 | .36 | .112 | 2.84 |
|                                                                                    |                                    | CMP     |   |                                                                                                       | 1000 <sup>†</sup>   | 304.8   | 84.0 | 38.2 |      |     |      |     |      |      |
|                                                                                    |                                    | CEC:    |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|                                                                                    |                                    | CMP FT6 |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|    | <b>82741</b>                       | NEC:    | 2 | Black & Red,<br>Black & White                                                                         | U-1000 <sup>†</sup> | U-304.8 | 18.0 | 8.2  | .006 | .15 | .014 | .36 | .179 | 4.55 |
|                                                                                    |                                    | CMP     |   |                                                                                                       | 1000 <sup>†</sup>   | 304.8   | 21.0 | 9.5  |      |     |      |     |      |      |
|                                                                                    |                                    | CEC:    |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|                                                                                    |                                    | CMP FT6 |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|    | <b>82742</b>                       | NEC:    | 3 | Black & Red,<br>Black & White,<br>Black & Green                                                       | U-1000 <sup>†</sup> | U-304.8 | 24.0 | 10.9 | .006 | .15 | .014 | .36 | .191 | 4.85 |
|                                                                                    |                                    | CMP     |   |                                                                                                       | 1000 <sup>†</sup>   | 304.8   | 28.0 | 12.7 |      |     |      |     |      |      |
|                                                                                    |                                    | CEC:    |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|                                                                                    |                                    | CMP FT6 |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|  | <b>82757</b>                       | NEC:    | 4 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue                                      | U-1000              | U-304.8 | 31.0 | 14.1 | .006 | .15 | .014 | .36 | .210 | 5.33 |
|                                                                                    |                                    | CMP     |   |                                                                                                       | 1000 <sup>†</sup>   | 304.8   | 34.0 | 15.5 |      |     |      |     |      |      |
|                                                                                    |                                    | CEC:    |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|                                                                                    |                                    | CMP FT6 |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|  | <b>82743</b>                       | NEC:    | 6 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue,<br>Black & Yellow,<br>Black & Brown | U-1000 <sup>†</sup> | U-304.8 | 44.0 | 20.0 | .006 | .15 | .014 | .36 | .237 | 6.02 |
|                                                                                    |                                    | CMP     |   |                                                                                                       | 1000 <sup>†</sup>   | 304.8   | 45.0 | 20.5 |      |     |      |     |      |      |
|                                                                                    |                                    | CEC:    |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |
|                                                                                    |                                    | CMP FT6 |   |                                                                                                       |                     |         |      |      |      |     |      |     |      |      |

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



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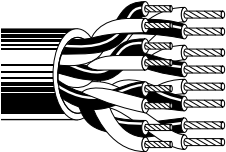
1-800-527-0010

## Unshielded

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

### 20 AWG Stranded Conductors (7x28) • Tinned Copper • Twisted Pairs

| PVC Insulation • Chrome PVC Jacket                                                                                    |             |         |    |                                          |        |         |       |      |      |     |      |      |      |       |
|-----------------------------------------------------------------------------------------------------------------------|-------------|---------|----|------------------------------------------|--------|---------|-------|------|------|-----|------|------|------|-------|
| 300V RMS<br>                         | <b>8205</b> | NEC:    | 1  | See<br>Chart 3<br>(Tech Info<br>Section) | 100    | 30.5    | 2.5   | 1.1  | .013 | .33 | .025 | .64  | .180 | 4.57  |
|                                                                                                                       |             | CMG     |    |                                          | U-500  | U-152.4 | 9.0   | 4.1  |      |     |      |      |      |       |
|                                                                                                                       |             | CEC:    |    |                                          | 500    | 152.4   | 9.0   | 4.1  |      |     |      |      |      |       |
|                                                                                                                       |             | CMG FT4 |    |                                          | U-1000 | U-304.8 | 17.0  | 7.7  |      |     |      |      |      |       |
|                                                                                                                       |             |         |    |                                          | 1000   | 304.8   | 18.0  | 8.2  |      |     |      |      |      |       |
| UL AWM Style 2464<br>(300V 80°C)<br> | <b>9750</b> | NEC:    | 3  | See<br>Chart 3<br>(Tech Info<br>Section) | 500    | 152.4   | 25.5  | 11.6 | .013 | .33 | .035 | .89  | .299 | 7.59  |
|                                                                                                                       |             | CMG     |    |                                          | 1000   | 304.8   | 50.0  | 22.7 |      |     |      |      |      |       |
|                                                                                                                       |             | CEC:    |    |                                          |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                       |             | CMG FT4 |    |                                          |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                       | <b>9751</b> | NEC:    | 6  | See<br>Chart 3<br>(Tech Info<br>Section) | 100    | 30.5    | 9.1   | 4.1  | .013 | .33 | .035 | .89  | .366 | 9.30  |
|                                                                                                                       |             | CMG     |    |                                          | 500    | 152.4   | 45.0  | 20.5 |      |     |      |      |      |       |
|                                                                                                                       |             | CEC:    |    |                                          | 1000   | 304.8   | 89.0  | 40.5 |      |     |      |      |      |       |
|                                                                                                                       |             | CMG FT4 |    |                                          |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                       | <b>9752</b> | NEC:    | 9  | See<br>Chart 3<br>(Tech Info<br>Section) | 100    | 30.5    | 13.2  | 6.0  | .013 | .33 | .035 | .89  | .429 | 10.90 |
|                                                                                                                       |             | CMG     |    |                                          | 500    | 152.4   | 65.5  | 29.8 |      |     |      |      |      |       |
|                                                                                                                       |             | CEC:    |    |                                          | 1000   | 304.8   | 125.0 | 56.8 |      |     |      |      |      |       |
|                                                                                                                       |             | CMG FT4 |    |                                          |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                       | <b>9755</b> | NEC:    | 15 | See<br>Chart 3<br>(Tech Info<br>Section) | 100    | 30.5    | 19.9  | 9.1  | .013 | .33 | .040 | 1.02 | .545 | 13.84 |
|                                                                                                                       |             | CMG     |    |                                          | 1000   | 304.8   | 194.0 | 88.2 |      |     |      |      |      |       |
|                                                                                                                       |             | CEC:    |    |                                          |        |         |       |      |      |     |      |      |      |       |
|                                                                                                                       |             | CMG FT4 |    |                                          |        |         |       |      |      |     |      |      |      |       |

### 19 AWG Solid Conductors • Bare Copper • Twisted Pair

| PVC Insulation • Chrome PVC Jacket                                                              |             |      |   |               |        |         |      |     |      |     |      |     |      |      |
|-------------------------------------------------------------------------------------------------|-------------|------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|
| 300V RMS<br> | <b>8486</b> | NEC: | 1 | Brown,<br>Tan | U-500  | U-152.4 | 9.5  | 4.3 | .015 | .38 | .025 | .64 | .182 | 4.62 |
|                                                                                                 |             | CM   |   |               | U-1000 | U-304.8 | 18.0 | 8.2 |      |     |      |     |      |      |
|                                                                                                 |             | CEC: |   |               | 1000   | 304.8   | 19.0 | 8.6 |      |     |      |     |      |      |
|                                                                                                 |             | CM   |   |               |        |         |      |     |      |     |      |     |      |      |
|                                                                                                 |             |      |   |               |        |         |      |     |      |     |      |     |      |      |

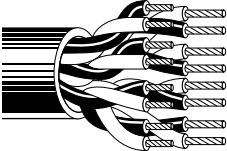
### 18 AWG Stranded Conductors (7x26) • Tinned Copper • Twisted Pair

| PVC Insulation • Chrome PVC Jacket                                                              |             |         |   |                 |        |         |      |      |      |     |      |     |      |      |
|-------------------------------------------------------------------------------------------------|-------------|---------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|
| 300V RMS<br> | <b>8461</b> | NEC:    | 1 | Black,<br>White | 100    | 30.5    | 3.8  | 1.7  | .022 | .56 | .028 | .71 | .234 | 5.94 |
|                                                                                                 |             | CMG     |   |                 | U-500  | U-152.4 | 14.0 | 6.4  |      |     |      |     |      |      |
|                                                                                                 |             | CEC:    |   |                 | 500    | 152.4   | 14.0 | 6.4  |      |     |      |     |      |      |
|                                                                                                 |             | CMG FT4 |   |                 | U-1000 | U-304.8 | 28.0 | 12.7 |      |     |      |     |      |      |
|                                                                                                 |             |         |   |                 | 1000   | 304.8   | 28.0 | 12.7 |      |     |      |     |      |      |
|                                                                                                 |             |         |   |                 |        |         |      |      |      |     |      |     |      |      |



# Unshielded

Audio, Control and Instrumentation Cables

| Description                                                                      | Part No. | UL NEC/<br>C(UL) CEC<br>Type             | No.<br>of Pairs | Color<br>Code                            | Standard Lengths |                                          | Standard<br>Unit Weight |                                          | Insulation<br>Thickness |       | Jacket<br>Thickness |       | Nominal OD |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|----------------------------------------------------------------------------------|----------|------------------------------------------|-----------------|------------------------------------------|------------------|------------------------------------------|-------------------------|------------------------------------------|-------------------------|-------|---------------------|-------|------------|------|-------|------------------------------------------|------|-----|------|------|------|-------|------|-------|------|-----|------|------|------|-------|------|------|------|------|------|-------|------|------|
|                                                                                  |          |                                          |                 |                                          | Ft.              | m                                        | Lbs.                    | kg                                       | Inch                    | mm    | Inch                | mm    | Inch       | mm   |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| 18 AWG Stranded Conductors (16x30) • Tinned Copper • Twisted Pairs               |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| PVC Insulation • Chrome PVC Jacket                                               |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|  | 9740     | NEC:                                     | 1               | See<br>Chart 3<br>(Tech Info<br>Section) | U-500            | U-152.4                                  | 12.5                    | 5.7                                      | .014                    | .36   | .032                | .81   | .210       | 5.33 |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CMG:                                     |                 |                                          | 500              | 152.4                                    | 13.0                    | 5.9                                      |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CEC:                                     |                 |                                          | U-1000           | U-304.8                                  | 25.0                    | 11.4                                     |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CMG FT4                                  |                 |                                          | 1000             | 304.8                                    | 24.0                    | 10.9                                     |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | NEC:                                     |                 |                                          | 2                | See<br>Chart 3<br>(Tech Info<br>Section) | U-500                   | U-152.4                                  |                         |       |                     |       |            |      | 26.0  | 11.8                                     | .014 | .36 | .035 | .89  | .333 | 8.46  |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CMG:                                     |                 |                                          |                  |                                          | 500                     | 152.4                                    |                         |       |                     |       |            |      | 26.0  | 11.8                                     |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CEC:                                     |                 |                                          |                  |                                          | U-1000                  | U-304.8                                  |                         |       |                     |       |            |      | 51.0  | 23.2                                     |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CMG FT4                                  |                 |                                          |                  |                                          | 1000                    | 304.8                                    |                         |       |                     |       |            |      | 51.0  | 23.2                                     |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | NEC:                                     |                 |                                          |                  |                                          | 3                       | See<br>Chart 3<br>(Tech Info<br>Section) |                         |       |                     |       |            |      | 100   | 30.5                                     |      |     |      |      |      |       | 6.9  | 3.1   | .014 | .36 | .032 | .81  | .347 | 8.81  |      |      |      |      |      |       |      |      |
|                                                                                  |          | CMG:                                     |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      | U-500 | U-152.4                                  |      |     |      |      |      |       | 32.5 | 14.8  |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CEC:                                     |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      | 500   | 152.4                                    |      |     |      |      |      |       | 33.5 | 15.2  |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | CMG FT4                                  |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      | 1000  | 304.8                                    |      |     |      |      |      |       | 64.0 | 29.1  |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
|                                                                                  |          | NEC:                                     |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      | 4     | See<br>Chart 3<br>(Tech Info<br>Section) |      |     |      |      |      |       | 100  | 30.5  |      |     |      |      |      |       | 8.4  | 3.8  | .014 | .36  | .032 | .81   | .381 | 9.68 |
|                                                                                  |          | CMG:                                     |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       | 500  | 152.4 |      |     |      |      |      |       | 43.0 | 19.5 |      |      |      |       |      |      |
| CEC:                                                                             | 1000     | 304.8                                    | 83.0            | 37.7                                     |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| NEC:                                                                             | 5        | See<br>Chart 3<br>(Tech Info<br>Section) | 500             | 152.4                                    |                  |                                          |                         |                                          | 50.0                    | 22.7  | .014                | .36   | .032       | .81  |       |                                          |      |     |      |      |      |       | .391 | 9.93  |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG:                                                                             |          |                                          | 1000            | 304.8                                    |                  |                                          |                         |                                          | 99.0                    | 45.0  |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CEC:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| NEC:                                                                             |          |                                          | 6               | See<br>Chart 3<br>(Tech Info<br>Section) | 500              | 152.4                                    |                         |                                          | 58.0                    | 26.4  |                     |       |            |      |       |                                          | .014 | .36 | .032 | .81  | .433 | 11.00 |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG:                                                                             |          |                                          |                 |                                          | 1000             | 304.8                                    |                         |                                          | 115.0                   | 52.3  |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CEC:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| NEC:                                                                             |          |                                          |                 |                                          | 8                | See<br>Chart 3<br>(Tech Info<br>Section) | 100                     | 30.5                                     | 15.8                    | 7.2   |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       | .014 | .36 | .037 | .94  | .475 | 12.07 |      |      |      |      |      |       |      |      |
| CMG:                                                                             |          |                                          |                 |                                          |                  |                                          | 500                     | 152.4                                    | 78.0                    | 35.6  |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CEC:                                                                             |          |                                          |                 |                                          |                  |                                          | 1000                    | 304.8                                    | 152.0                   | 69.3  |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| NEC:                                                                             |          |                                          |                 |                                          |                  |                                          | 9                       | See<br>Chart 3<br>(Tech Info<br>Section) | 500                     | 152.4 |                     |       |            |      | 87.0  | 39.5                                     |      |     |      |      |      |       |      |       |      |     |      |      |      |       | .014 | .36  | .040 | 1.02 | .524 | 13.31 |      |      |
| CMG:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          | 1000                    | 304.8 |                     |       |            |      | 170.0 | 77.3                                     |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CEC:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| NEC:                                                                             | 12       | See<br>Chart 3<br>(Tech Info<br>Section) |                 |                                          |                  |                                          |                         |                                          | 100                     | 30.5  | 25.7                | 11.7  | .014       | .36  | .046  | 1.17                                     |      |     |      |      |      |       | .600 | 15.24 |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          | 1000                    | 304.8 | 223.0               | 101.4 |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CEC:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| NEC:                                                                             |          |                                          | 15              | See<br>Chart 3<br>(Tech Info<br>Section) |                  |                                          |                         |                                          | 100                     | 30.5  | 30.9                | 14.0  |            |      |       |                                          | .014 | .36 | .051 | 1.30 | .677 | 17.20 |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          | 500                     | 152.4 | 148.5               | 67.5  |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CEC:                                                                             |          |                                          |                 |                                          | 1000             | 304.8                                    |                         |                                          | 294.0                   | 133.6 |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| NEC:                                                                             |          |                                          |                 |                                          | 19               | See<br>Chart 3<br>(Tech Info<br>Section) |                         |                                          | 100                     | 30.5  | 37.0                | 16.8  |            |      |       |                                          |      |     |      |      |      |       |      |       | .014 | .36 | .055 | 1.40 | .721 | 18.31 |      |      |      |      |      |       |      |      |
| CMG:                                                                             |          |                                          |                 |                                          |                  |                                          |                         |                                          | 500                     | 152.4 | 179.0               | 81.4  |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CEC:                                                                             |          |                                          |                 |                                          |                  |                                          | 1000                    | 304.8                                    | 355.0                   | 161.4 |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |
| CMG FT4                                                                          |          |                                          |                 |                                          |                  |                                          |                         |                                          |                         |       |                     |       |            |      |       |                                          |      |     |      |      |      |       |      |       |      |     |      |      |      |       |      |      |      |      |      |       |      |      |



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## Unshielded

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

### 18 AWG Stranded Conductors (19x30) • Tinned Copper • Twisted Pair

| Plenum • FEP Insulation • Red FEP Jacket                                                                   |              |                 |   |               |       |       |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------|--------------|-----------------|---|---------------|-------|-------|------|-----|------|-----|------|-----|------|------|
| 300V RMS, Non-conduit<br> | <b>89740</b> | NEC:            | 1 | Black,<br>Red | 100   | 30.5  | 3.0  | 1.4 | .006 | .17 | .009 | .23 | .136 | 3.45 |
|                                                                                                            |              | CMP             |   |               | 500†  | 152.4 | 9.0  | 4.1 |      |     |      |     |      |      |
|                                                                                                            |              | CEC:<br>CMP FT6 |   |               | 1000† | 304.8 | 17.0 | 7.7 |      |     |      |     |      |      |

| Plenum • FEP Insulation • Red Fluorocopolymer Jacket                                                       |              |                 |   |               |       |       |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------|--------------|-----------------|---|---------------|-------|-------|------|-----|------|-----|------|-----|------|------|
| 300V RMS, Non-conduit<br> | <b>87740</b> | NEC:            | 1 | Black,<br>Red | 500†  | 152.4 | 9.0  | 4.1 | .006 | .17 | .011 | .28 | .140 | 3.56 |
|                                                                                                            |              | CMP             |   |               | 1000† | 304.8 | 17.0 | 7.7 |      |     |      |     |      |      |
|                                                                                                            |              | CEC:<br>CMP FT6 |   |               |       |       |      |     |      |     |      |     |      |      |

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                                                       |              |                 |   |               |        |         |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------|--------------|-----------------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|
| 300V RMS, Non-conduit<br> | <b>82740</b> | NEC:            | 1 | Black,<br>Red | U-1000 | U-304.8 | 17.0 | 7.7 | .006 | .17 | .014 | .36 | .146 | 3.71 |
|                                                                                                            |              | CMP             |   |               | 1000†  | 304.8   | 18.0 | 8.2 |      |     |      |     |      |      |
|                                                                                                            |              | CEC:<br>CMP FT6 |   |               |        |         |      |     |      |     |      |     |      |      |

### 16 AWG Stranded Conductors (19x29) • Tinned Copper • Twisted Pair

| PVC Insulation • Chrome PVC Jacket                                                                                      |             |                 |   |                 |        |         |      |      |      |     |      |     |      |      |
|-------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|
| UL AWM Style 2598<br>(300V 60°C)<br> | <b>8471</b> | NEC:            | 1 | Black,<br>White | U-500  | U-152.4 | 20.0 | 9.1  | .023 | .58 | .032 | .81 | .274 | 6.96 |
|                                                                                                                         |             | CMG             |   |                 | 500    | 152.4   | 20.0 | 9.1  |      |     |      |     |      |      |
|                                                                                                                         |             | CEC:<br>CMG FT4 |   |                 | U-1000 | U-304.8 | 39.0 | 17.7 |      |     |      |     |      |      |
|                                                                                                                         |             |                 |   |                 | 1000   | 304.8   | 40.0 | 18.2 |      |     |      |     |      |      |

### 14 AWG Stranded Conductors (42x30) • Tinned Copper • Twisted Pair

| PVC Insulation • Chrome PVC Jacket                                                                                      |             |                    |   |                 |       |         |      |      |      |     |      |     |      |      |
|-------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|---|-----------------|-------|---------|------|------|------|-----|------|-----|------|------|
| UL AWM Style 2587<br>(600V 90°C)<br> | <b>8473</b> | NEC:               | 1 | Black,<br>White | U-500 | U-152.4 | 29.5 | 13.4 | .031 | .79 | .032 | .81 | .340 | 8.64 |
|                                                                                                                         |             | CL3                |   |                 | 500   | 152.4   | 30.5 | 13.9 |      |     |      |     |      |      |
|                                                                                                                         |             | CEC:<br>FAS 90 FT4 |   |                 | 1000  | 304.8   | 58.0 | 26.4 |      |     |      |     |      |      |

See NEC Guidelines for applicable CL3 voltage ratings.

### 12 AWG Stranded Conductors (65x30) • Tinned Copper • Twisted Pair

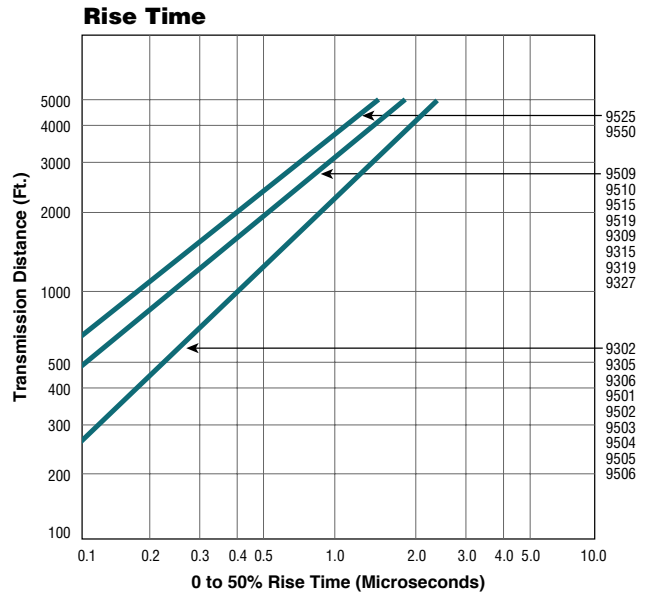
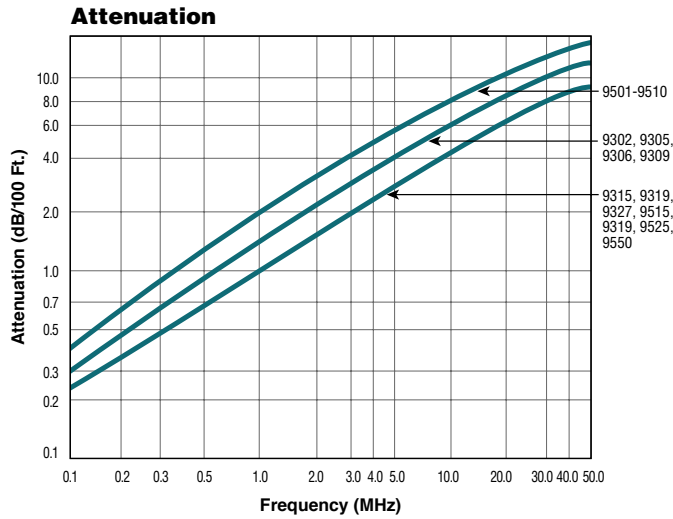
| PVC Insulation • Chrome PVC Jacket                                                                                      |             |      |   |                 |       |         |      |      |      |     |      |     |      |      |
|-------------------------------------------------------------------------------------------------------------------------|-------------|------|---|-----------------|-------|---------|------|------|------|-----|------|-----|------|------|
| UL AWM Style 2587<br>(600V 90°C)<br> | <b>8477</b> | NEC: | 1 | Black,<br>White | U-500 | U-152.4 | 42.0 | 19.1 | .032 | .81 | .035 | .89 | .386 | 9.80 |
|                                                                                                                         |             | CL3R |   |                 | 500   | 152.4   | 42.0 | 19.1 |      |     |      |     |      |      |
|                                                                                                                         |             |      |   |                 | 1000  | 304.8   | 83.0 | 37.7 |      |     |      |     |      |      |

See NEC Guidelines for applicable CL3 voltage ratings.

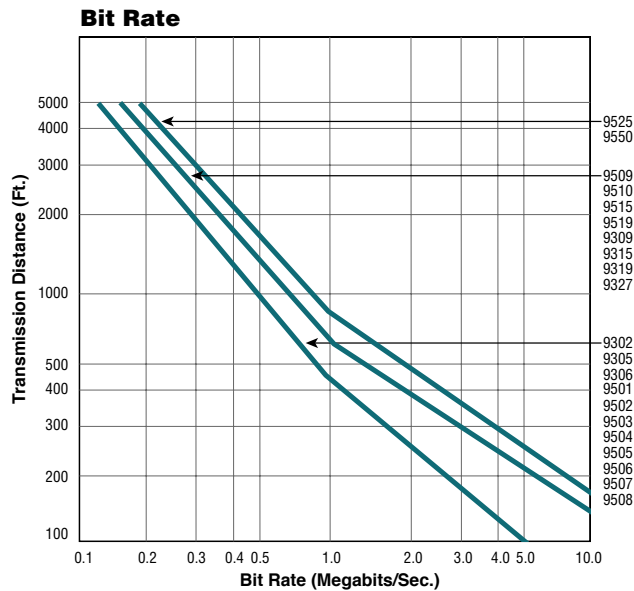
†Spools are one piece, but length may vary ±10% from length shown.

# Overall Beldfoil® Shield

## Cable Characteristics



Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.



Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.



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1-800-527-0010

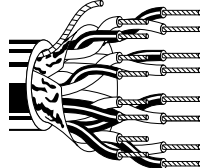
## Overall Beldfoil® Shield

High-Temperature Control and Instrumentation Cables  
and Computer Cables for EIA RS-232 Applications

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**20 AWG** Stranded Conductors (7x28) • Tinned Copper • Pairs Cabled Together • Overall 100% Beldfoil Aluminum-Kapton® Shield • Drain Wire

### Tefzel® Insulation • Clear Tefzel Material Jacket

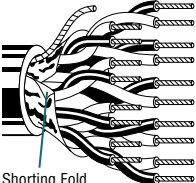
|                                                                                                                                         |              |   |                                                                                                                                          |       |       |       |      |      |     |      |     |      |       |    |    |    |     |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|---|------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|------|------|-----|------|-----|------|-------|----|----|----|-----|
| <b>High-Temperature</b><br>300V RMS, 150°C<br>VW-1<br> | <b>85164</b> | 4 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue                                                                         | 100   | 30.5  | 8.4   | 3.8  | .015 | .38 | .025 | .64 | .344 | 8.74  | 23 | 75 | 40 | 131 |
|                                                                                                                                         |              |   |                                                                                                                                          | 500†  | 152.4 | 37.0  | 16.8 |      |     |      |     |      |       |    |    |    |     |
|                                                                                                                                         |              |   |                                                                                                                                          | 1000† | 304.8 | 71.0  | 32.3 |      |     |      |     |      |       |    |    |    |     |
|                                                                                                                                         |              |   |                                                                                                                                          |       |       |       |      |      |     |      |     |      |       |    |    |    |     |
|                                                                                                                                         | <b>85168</b> | 8 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue,<br>Black & Yellow,<br>Black & Brown,<br>Black & Orange,<br>Red & White | 100   | 30.5  | 13.5  | 6.1  | .015 | .38 | .025 | .64 | .439 | 11.15 | 23 | 75 | 40 | 131 |
|                                                                                                                                         |              |   |                                                                                                                                          | 500†  | 152.4 | 62.0  | 28.2 |      |     |      |     |      |       |    |    |    |     |
|                                                                                                                                         |              |   |                                                                                                                                          | 1000† | 304.8 | 126.0 | 57.3 |      |     |      |     |      |       |    |    |    |     |
|                                                                                                                                         |              |   |                                                                                                                                          |       |       |       |      |      |     |      |     |      |       |    |    |    |     |

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG** Stranded Conductors (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire

### Semi-rigid PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464  
(300V 80°C)  
CSA AWM I A



Shorting Fold

|               |         |   |            |        |         |       |       |          |          |      |      |    |     |    |     |    |     |
|---------------|---------|---|------------|--------|---------|-------|-------|----------|----------|------|------|----|-----|----|-----|----|-----|
| <b>9501</b>   | NEC:    | 1 | See        | 100    | 30.5    | 2.1   | 1.0   | 24.0Ω/M' | 18.0Ω/M' | .156 | 3.96 | 75 | 60% | 40 | 131 | 74 | 243 |
|               | CMG     |   | Chart 3    | U-500  | U-152.4 | 7.5   | 3.4   | 78.7Ω/km | 59.1Ω/km |      |      |    |     |    |     |    |     |
|               | CEC:    |   | (Tech Info | 500    | 152.4   | 7.0   | 3.2   |          |          |      |      |    |     |    |     |    |     |
|               | CMG FT4 |   | Section)   | U-1000 | U-304.8 | 14.0  | 6.4   |          |          |      |      |    |     |    |     |    |     |
|               |         |   |            | 1000   | 304.8   | 14.0  | 6.4   |          |          |      |      |    |     |    |     |    |     |
| <b>9502††</b> | NEC:    | 2 | See        | 100    | 30.5    | 3.7   | 1.7   | 24.0Ω/M' | 17.0Ω/M' | .222 | 5.64 | 75 | 60% | 30 | 98  | 50 | 164 |
|               | CMG     |   | Chart 3    | U-500  | U-152.4 | 14.5  | 6.6   | 78.7Ω/km | 55.8Ω/km |      |      |    |     |    |     |    |     |
|               | CEC:    |   | (Tech Info | 500    | 152.4   | 15.0  | 6.8   |          |          |      |      |    |     |    |     |    |     |
|               | CMG FT4 |   | Section)   | U-1000 | U-304.8 | 28.0  | 12.7  |          |          |      |      |    |     |    |     |    |     |
|               |         |   |            | 1000   | 304.8   | 29.0  | 13.2  |          |          |      |      |    |     |    |     |    |     |
|               |         |   |            | 10000  | 3048.0  | 290.0 | 131.8 |          |          |      |      |    |     |    |     |    |     |
| <b>9503</b>   | NEC:    | 3 | See        | 100    | 30.5    | 3.9   | 1.8   | 24.0Ω/M' | 17.0Ω/M' | .232 | 5.89 | 75 | 60% | 30 | 98  | 50 | 164 |
|               | CMG     |   | Chart 3    | U-500  | U-152.4 | 14.5  | 6.6   | 78.7Ω/km | 55.8Ω/km |      |      |    |     |    |     |    |     |
|               | CEC:    |   | (Tech Info | 500    | 152.4   | 15.0  | 6.8   |          |          |      |      |    |     |    |     |    |     |
|               | CMG FT4 |   | Section)   | U-1000 | U-304.8 | 29.0  | 13.2  |          |          |      |      |    |     |    |     |    |     |
|               |         |   |            | 1000   | 304.8   | 29.0  | 13.2  |          |          |      |      |    |     |    |     |    |     |
| <b>9504</b>   | NEC:    | 4 | See        | 100    | 30.5    | 4.5   | 2.0   | 24.0Ω/M' | 17.0Ω/M' | .265 | 6.73 | 75 | 60% | 30 | 98  | 50 | 164 |
|               | CMG     |   | Chart 3    | U-500  | U-152.4 | 17.5  | 8.0   | 78.7Ω/km | 55.8Ω/km |      |      |    |     |    |     |    |     |
|               | CEC:    |   | (Tech Info | 500    | 152.4   | 18.0  | 8.2   |          |          |      |      |    |     |    |     |    |     |
|               | CMG FT4 |   | Section)   | U-1000 | U-304.8 | 35.0  | 15.9  |          |          |      |      |    |     |    |     |    |     |
|               |         |   |            | 1000   | 304.8   | 35.0  | 15.9  |          |          |      |      |    |     |    |     |    |     |
| <b>9505</b>   | NEC:    | 5 | See        | 100    | 30.5    | 5.5   | 2.5   | 24.0Ω/M' | 17.0Ω/M' | .289 | 7.34 | 75 | 60% | 30 | 98  | 50 | 164 |
|               | CMG     |   | Chart 3    | U-500  | U-152.4 | 22.0  | 10.0  | 78.7Ω/km | 55.8Ω/km |      |      |    |     |    |     |    |     |
|               | CEC:    |   | (Tech Info | 500    | 152.4   | 22.5  | 10.2  |          |          |      |      |    |     |    |     |    |     |
|               | CMG FT4 |   | Section)   | U-1000 | U-304.8 | 43.0  | 19.5  |          |          |      |      |    |     |    |     |    |     |
|               |         |   |            | 1000   | 304.8   | 44.0  | 20.0  |          |          |      |      |    |     |    |     |    |     |

For Plenum version of 9502,  
see 82502.

For Plenum versions of 9503,  
see 89503 or 82503.

For Plenum versions of 9504,  
see 89504 or 82504.

For Plenum versions of 9505,  
see 89505 or 82505.

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary ±10% from length shown.

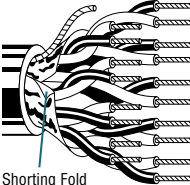
†† Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification. Request quotations of RG/U cables not listed.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.

Tefzel and Kapton are DuPont trademarks.

# Overall Beldfoil® Shield

## Computer Cables for EIA RS-232 Applications

| Description                                                                                                                                     | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard<br>Lengths |         | Standard<br>Unit Weight                   |                                           | Nom. DCR |          | Nominal<br>OD |      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |               |                  |                |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|-----------------|---------------|---------------------|---------|-------------------------------------------|-------------------------------------------|----------|----------|---------------|------|---------------------|--------------------------|------------------|---------------|------------------|----------------|--|--|
|                                                                                                                                                 |             |                              |                 |               | Ft.                 | m       | Lbs.                                      | kg                                        | Cond.    | Shield   | Inch          | mm   |                     |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |  |  |
| <b>24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire</b> <i>(continued)</i> |             |                              |                 |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <b>Semi-rigid PVC Insulation • Chrome PVC Jacket</b>                                                                                            |             |                              |                 |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <br>Shorting Fold                                               | <b>9506</b> | NEC:                         | 6               | See           | 100                 | 30.5    | 5.8                                       | 2.6                                       | 24.0Ω/M' | 16.0Ω/M' | .289          | 7.34 | 75                  | 60%                      | 30               | 98            | 50               | 164            |  |  |
|                                                                                                                                                 |             | CMG                          |                 | Chart 3       | U-500               | U-152.4 | 23.5                                      | 10.7                                      | 78.7Ω/km | 52.5Ω/km |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CEC:        | (Tech Info                   | 500             | 152.4         | 24.0                | 10.9    | For Plenum version of 9506,<br>see 82506. |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CMG FT4     | Section)                     | U-1000          | U-304.8       | 47.0                | 21.4    |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | <b>9507</b> | NEC:                         | 7               | See           | 100                 | 30.5    | 6.3                                       | 2.9                                       | 24.0Ω/M' | 16.5Ω/M' | .294          | 7.47 | 75                  | 60%                      | 30               | 98            | 50               | 164            |  |  |
|                                                                                                                                                 |             | CMG                          |                 | Chart 3       | U-500               | U-152.4 | 26.0                                      | 11.8                                      | 78.7Ω/km | 54.1Ω/km |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 |             | CEC:                         |                 | (Tech Info    | 500                 | 152.4   | 26.5                                      | 12.0                                      |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 |             | CMG FT4                      |                 | Section)      | U-1000              | U-304.8 | 51.0                                      | 23.2                                      |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | <b>9508</b> | NEC:                         | 8               | See           | 100                 | 30.5    | 6.4                                       | 2.9                                       | 24.0Ω/M' | 16.5Ω/M' | .324          | 8.23 | 75                  | 60%                      | 30               | 98            | 50               | 164            |  |  |
|                                                                                                                                                 |             | CMG                          |                 | Chart 3       | 500                 | 152.4   | 30.0                                      | 13.6                                      | 78.7Ω/km | 54.1Ω/km |               |      |                     |                          |                  |               |                  |                |  |  |
| CEC:                                                                                                                                            |             | (Tech Info                   |                 | 1000          | 304.8               | 61.0    | 27.7                                      |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| CMG FT4                                                                                                                                         |             | Section)                     |                 |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <b>9509</b>                                                                                                                                     | NEC:        | 9                            | See             | 100           | 30.5                | 7.0     | 3.2                                       | 24.0Ω/M'                                  | 16.5Ω/M' | .334     | 8.48          | 75   | 60%                 | 30                       | 98               | 50            | 164              |                |  |  |
|                                                                                                                                                 | CMG         |                              | Chart 3         | 500           | 152.4               | 33.0    | 15.0                                      | 78.7Ω/km                                  | 54.1Ω/km |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CEC:        |                              | (Tech Info      | 1000          | 304.8               | 69.0    | 31.4                                      | For Plenum version of 9509,<br>see 82509. |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CMG FT4     |                              | Section)        |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <b>9510</b>                                                                                                                                     | NEC:        | 10                           | See             | 100           | 30.5                | 7.6     | 3.5                                       | 24.0Ω/M'                                  | 16.5Ω/M' | .368     | 9.34          | 75   | 60%                 | 30                       | 98               | 50            | 164              |                |  |  |
|                                                                                                                                                 | CMG         |                              | Chart 3         | 500           | 152.4               | 39.0    | 17.7                                      | 78.7Ω/km                                  | 54.1Ω/km |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CEC:        |                              | (Tech Info      | 1000          | 304.8               | 75.0    | 34.1                                      |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CMG FT4     |                              | Section)        |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <b>9515</b>                                                                                                                                     | NEC:        | 15                           | See             | 100           | 30.5                | 10.4    | 4.7                                       | 24.0Ω/M'                                  | 16.5Ω/M' | .417     | 10.6          | 75   | 60%                 | 30                       | 98               | 50            | 164              |                |  |  |
|                                                                                                                                                 | CMG         |                              | Chart 3         | 500           | 152.4               | 52.0    | 23.6                                      | 78.7Ω/km                                  | 54.1Ω/km |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CEC:        |                              | (Tech Info      | 1000          | 304.8               | 102.0   | 46.4                                      |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CMG FT4     |                              | Section)        |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <b>9519</b>                                                                                                                                     | NEC:        | 19                           | See             | 100           | 30.5                | 12.9    | 5.9                                       | 24.0Ω/M'                                  | 16.5Ω/M' | .448     | 11.4          | 75   | 60%                 | 30                       | 98               | 50            | 164              |                |  |  |
|                                                                                                                                                 | CMG         |                              | Chart 3         | 500           | 152.4               | 61.5    | 28.0                                      | 78.7Ω/km                                  | 54.1Ω/km |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CEC:        |                              | (Tech Info      | 1000          | 304.8               | 122.0   | 55.5                                      |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CMG FT4     |                              | Section)        |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <b>9525</b>                                                                                                                                     | NEC:        | 25                           | See             | 100           | 30.5                | 16.2    | 7.4                                       | 24.0Ω/M'                                  | 16.5Ω/M' | .503     | 12.8          | 75   | 60%                 | 30                       | 98               | 50            | 164              |                |  |  |
|                                                                                                                                                 | CMG         |                              | Chart 3         | 500           | 152.4               | 80.5    | 36.6                                      | 78.7Ω/km                                  | 54.1Ω/km |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CEC:        |                              | (Tech Info      | 1000          | 304.8               | 156.0   | 70.9                                      |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CMG FT4     |                              | Section)        |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
| <b>9550</b>                                                                                                                                     | NEC:        | 50                           | Request         | 100           | 30.5                | 30.9    | 14.0                                      | 24.0Ω/M'                                  | 15.2Ω/M' | .708     | 18.0          | 75   | 60%                 | 30                       | 98               | 50            | 164              |                |  |  |
|                                                                                                                                                 | CMG         |                              | Technical       | 500†          | 152.4               | 153.5   | 69.8                                      | 78.7Ω/km                                  | 49.9Ω/km |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CEC:        |                              | Bulletin        | 1000†         | 304.8               | 311.0   | 141.4                                     |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |
|                                                                                                                                                 | CMG FT4     |                              | T/8-4           |               |                     |         |                                           |                                           |          |          |               |      |                     |                          |                  |               |                  |                |  |  |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

†Spools are one piece, but length may vary -0% to +20% from length shown.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.



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## Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

Plenum-Rated

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG Stranded Conductors (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire**

### Plenum • FEP Insulation • Natural Flamarrest® Jacket

|                                                                                   |                       |              |                                |   |                                                                  |                   |                    |                      |                     |             |             |              |    |     |    |     |
|-----------------------------------------------------------------------------------|-----------------------|--------------|--------------------------------|---|------------------------------------------------------------------|-------------------|--------------------|----------------------|---------------------|-------------|-------------|--------------|----|-----|----|-----|
|  | 300V RMS, Non-conduit | <b>82641</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | Black,<br>Red                                                    | U-1000†<br>1000†  | U-304.8<br>304.8   | 9.0<br>10.0          | 4.1<br>4.5          | .006<br>.15 | .014<br>.36 | .106<br>2.69 | 31 | 102 | 59 | 194 |
|                                                                                   |                       | <b>82502</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | Black &<br>White,<br>Black &<br>Red                              | U-500†<br>U-1000† | U-152.4<br>U-304.8 | 8.0<br>15.0<br>16.0  | 3.6<br>6.8<br>7.3   | .006<br>.15 | .014<br>.36 | .162<br>4.11 | 25 | 82  | 45 | 148 |
|                                                                                   |                       | <b>82503</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3 | Black & White,<br>Black & Red,<br>Black & Green                  | U-1000†<br>1000†  | U-304.8<br>304.8   | 19.0<br>20.0         | 8.6<br>9.1          | .006<br>.15 | .014<br>.36 | .169<br>4.29 | 25 | 82  | 45 | 148 |
|                                                                                   |                       | <b>82504</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | Black & White,<br>Black & Red,<br>Black & Green,<br>Black & Blue | U-1000†<br>1000†  | U-304.8<br>304.8   | 24.0<br>27.0         | 10.9<br>12.3        | .006<br>.15 | .014<br>.36 | .193<br>4.90 | 25 | 82  | 45 | 148 |
|                                                                                   |                       | <b>82505</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 5 | See<br>Chart 3<br>(Tech Info<br>Section)                         | U-1000†<br>1000†  | U-304.8<br>304.8   | 30.0<br>33.0         | 13.6<br>15.0        | .006<br>.15 | .015<br>.38 | .196<br>4.98 | 25 | 82  | 45 | 148 |
|                                                                                   |                       | <b>82506</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6 | See<br>Chart 3<br>(Tech Info<br>Section)                         | U-500†<br>U-1000† | U-152.4<br>U-304.8 | 17.5<br>34.0<br>37.0 | 8.0<br>15.5<br>16.8 | .006<br>.15 | .015<br>.38 | .209<br>5.31 | 25 | 82  | 45 | 148 |
|                                                                                   |                       | <b>82509</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9 | See<br>Chart 3<br>(Tech Info<br>Section)                         | 1000†             | 304.8              | 49.0                 | 22.3                | .006<br>.15 | .015<br>.38 | .246<br>6.25 | 23 | 75  | 42 | 138 |

### Plenum • FEP Insulation • Red FEP Jacket

|                                                                                     |                       |              |                                |   |                                                                                     |                      |                        |                     |                    |             |             |              |      |     |    |     |
|-------------------------------------------------------------------------------------|-----------------------|--------------|--------------------------------|---|-------------------------------------------------------------------------------------|----------------------|------------------------|---------------------|--------------------|-------------|-------------|--------------|------|-----|----|-----|
|  | 300V RMS, Non-conduit | <b>88641</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | Black,<br>Red                                                                       | 100<br>500†<br>1000† | 30.5<br>152.4<br>304.8 | 2.4<br>6.0<br>11.0  | 1.1<br>2.7<br>5.0  | .006<br>.15 | .014<br>.36 | .106<br>2.69 | 31   | 102 | 59 | 194 |
|                                                                                     |                       | <b>89503</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3 | Black & White,<br>Black & Red,<br>Black & Green                                     | 100<br>500†<br>1000† | 30.5<br>152.4<br>304.8 | 4.0<br>12.0<br>23.0 | 1.8<br>5.5<br>10.5 | .006<br>.15 | .014<br>.36 | .175<br>4.45 | 21.0 | 69  | 40 | 131 |
|                                                                                     |                       | <b>89504</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | Black & White,<br>Black & Red,<br>Black & Green,<br>Black & Blue                    | 500†<br>1000†        | 152.4<br>304.8         | 14.5<br>31.0        | 6.6<br>14.1        | .006<br>.15 | .014<br>.36 | .192<br>4.88 | 21   | 69  | 40 | 131 |
|                                                                                     |                       | <b>89505</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 5 | Black & White,<br>Black & Red,<br>Black & Green,<br>Black & Blue,<br>Black & Yellow | 100<br>1000†         | 30.5<br>304.8          | 4.9<br>35.0         | 2.2<br>15.9        | .006<br>.15 | .014<br>.36 | .197<br>5.00 | 21   | 69  | 40 | 131 |

TC = Tinned Copper

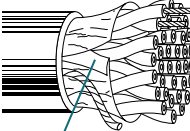
\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

# Overall Beldfoil® Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-485 Applications

| Description                                                                                                                      | Part No.                        | UL NEC/<br>C(UL) CEC<br>Type | No. of Pairs | Color Code                       | Standard Lengths                         |             | Standard Unit Weight |              | Nom. DCR     |                       | Nominal OD           |               | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nom. Capacitance |         |            |          |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------|--------------|----------------------------------|------------------------------------------|-------------|----------------------|--------------|--------------|-----------------------|----------------------|---------------|---------------|--------------------|------------------|---------|------------|----------|
|                                                                                                                                  |                                 |                              |              |                                  | Ft.                                      | m           | Lbs.                 | kg           | Cond.        | Shield                | Inch                 | mm            |               |                    | * pF/ Ft.        | * pF/ m | ** pF/ Ft. | ** pF/ m |
| 28 AWG Stranded Conductors (7x36) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 28 AWG Stranded TC Drain Wire |                                 |                              |              |                                  |                                          |             |                      |              |              |                       |                      |               |               |                    |                  |         |            |          |
| Datalene® Insulation • Chrome PVC Jacket                                                                                         |                                 |                              |              |                                  |                                          |             |                      |              |              |                       |                      |               |               |                    |                  |         |            |          |
| <br>Z-Fold®                                      | UL AWM Style 2919<br>(30V 80°C) | 8132FO<br><small>new</small> | NEC:<br>CL2  | 2                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 10.5<br>20.0 | 4.8<br>9.1   | 65.0Ω/M'<br>213.0Ω/km | 23.1Ω/M'<br>75.8Ω/km | .215<br>5.46  | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |
|                                                                                                                                  |                                 | 8133FO<br><small>new</small> | NEC:<br>CL2  | 3                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 13.0<br>26.0 | 5.9<br>11.8  | 65.0Ω/M'<br>213.0Ω/km | 23.1Ω/M'<br>75.8Ω/km | .250<br>6.35  | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |
|                                                                                                                                  |                                 | 8134FO<br><small>new</small> | NEC:<br>CL2  | 4                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 16.5<br>31.0 | 7.5<br>14.1  | 65.0Ω/M'<br>213.0Ω/km | 20.0Ω/M'<br>65.6Ω/km | .270<br>6.86  | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |
|                                                                                                                                  |                                 | 8135FO<br><small>new</small> | NEC:<br>CL2  | 5                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 17.0<br>32.0 | 7.7<br>14.5  | 65.0Ω/M'<br>213.0Ω/km | 20.0Ω/M'<br>65.6Ω/km | .280<br>7.11  | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |
|                                                                                                                                  |                                 | 8138FO<br><small>new</small> | NEC:<br>CL2  | 8                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 22.0<br>42.0 | 10.0<br>19.1 | 65.0Ω/M'<br>213.0Ω/km | 17.7Ω/M'<br>58.1Ω/km | .310<br>7.88  | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |
|                                                                                                                                  |                                 | 8142FO<br><small>new</small> | NEC:<br>CL2  | 12.5<br>(12 pairs +<br>1 single) | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 27.5<br>54.0 | 12.5<br>24.5 | 65.0Ω/M'<br>213.0Ω/km | 17.7Ω/M'<br>58.1Ω/km | .385<br>9.78  | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |
|                                                                                                                                  |                                 | 8148FO<br><small>new</small> | NEC:<br>CL2  | 18                               | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 38.5<br>75.0 | 17.5<br>34.1 | 65.0Ω/M'<br>213.0Ω/km | 15.8Ω/M'<br>51.8Ω/km | .445<br>11.31 | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |
|                                                                                                                                  |                                 | 8155FO<br><small>new</small> | NEC:<br>CL2  | 25                               | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8       | 42.0<br>80.0 | 19.1<br>36.4 | 65.0Ω/M'<br>213.0Ω/km | 14.3Ω/M'<br>4.7Ω/km  | .545<br>13.85 | 120           | 78%                | 11.0             | 36.1    | 20.0       | 65.6     |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.



## Overall Beldfoil® Shield

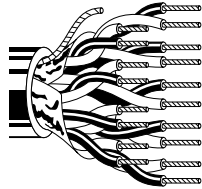
Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Nom. DCR |        | Nominal OD |    | Nom. Imp. of Prop. (Ω) | Nom. Vel. of Prop. | Nom. Capacitance |        |           |         |
|-------------|----------|------------------------------|--------------|------------|------------------|---|----------------------|----|----------|--------|------------|----|------------------------|--------------------|------------------|--------|-----------|---------|
|             |          |                              |              |            | Ft.              | m | Lbs.                 | kg | Cond.    | Shield | Inch       | mm |                        |                    | * pF/Ft.         | * pF/m | ** pF/Ft. | ** pF/m |

**24 AWG Stranded Conductors (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire**

### Polyethylene Insulation • Chrome PVC Jacket

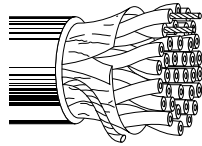
UL AWM Style 2919  
(30V 80°C)



|             |                    |                               |                                    |             |                |              |              |                      |                      |      |       |     |     |      |      |      |      |
|-------------|--------------------|-------------------------------|------------------------------------|-------------|----------------|--------------|--------------|----------------------|----------------------|------|-------|-----|-----|------|------|------|------|
| <b>9680</b> | NEC: CM<br>CEC: CM | 3                             | See Chart 5<br>(Tech Info Section) | 500<br>1000 | 152.4<br>304.8 | 19.0<br>38.0 | 8.6<br>17.3  | 24.0Ω/M'<br>78.7Ω/km | 14.4Ω/M'<br>47.2Ω/km | .282 | 7.16  | 100 | 66% | 15.5 | 50.8 | 27.5 | 90.2 |
| <b>9681</b> | NEC: CM<br>CEC: CM | 4                             | See Chart 5<br>(Tech Info Section) | 500<br>1000 | 152.4<br>304.8 | 22.5<br>45.0 | 10.2<br>20.5 | 24.0Ω/M'<br>78.7Ω/km | 14.4Ω/M'<br>47.2Ω/km | .307 | 7.80  | 100 | 66% | 15.5 | 50.8 | 27.5 | 90.2 |
| <b>9682</b> | NEC: CM<br>CEC: CM | 6                             | See Chart 5<br>(Tech Info Section) | 500<br>1000 | 152.4<br>304.8 | 29.5<br>56.0 | 13.4<br>25.5 | 24.0Ω/M'<br>78.7Ω/km | 13.1Ω/M'<br>43.0Ω/km | .342 | 8.69  | 100 | 66% | 15.5 | 50.8 | 27.5 | 90.2 |
| <b>9683</b> | NEC: CM<br>CEC: CM | 9                             | See Chart 5<br>(Tech Info Section) | 500<br>1000 | 152.4<br>304.8 | 40.0<br>79.0 | 18.2<br>35.9 | 24.0Ω/M'<br>78.7Ω/km | 12.0Ω/M'<br>39.4Ω/km | .397 | 10.10 | 100 | 66% | 15.5 | 50.8 | 27.5 | 90.2 |
| <b>9684</b> | NEC: CM<br>CEC: CM | 12.5<br>(12 pairs + 1 single) | See Chart 5<br>(Tech Info Section) | 500<br>1000 | 152.4<br>304.8 | 49.5<br>97.0 | 22.6<br>44.1 | 24.0Ω/M'<br>78.7Ω/km | 12.0Ω/M'<br>39.4Ω/km | .445 | 11.30 | 100 | 66% | 15.5 | 50.8 | 27.5 | 90.2 |

### Datalene® Insulation • Chrome PVC Jacket

UL AWM Style 2919  
(30V 80°C)



|              |                    |                               |                                    |                      |                          |                       |                       |                      |                      |      |       |     |     |    |      |    |    |
|--------------|--------------------|-------------------------------|------------------------------------|----------------------|--------------------------|-----------------------|-----------------------|----------------------|----------------------|------|-------|-----|-----|----|------|----|----|
| <b>1419A</b> | NEC: CM<br>CEC: CM | 2                             | See Chart 5<br>(Tech Info Section) | 500<br>1000<br>10000 | 152.4<br>304.8<br>3048.0 | 15.5<br>30.0<br>310.0 | 7.0<br>13.6<br>140.9  | 24.0Ω/M'<br>78.7Ω/km | 15.1Ω/M'<br>49.5Ω/km | .248 | 6.30  | 100 | 78% | 13 | 42.7 | 22 | 72 |
| <b>1420A</b> | NEC: CM<br>CEC: CM | 3                             | See Chart 5<br>(Tech Info Section) | 500<br>1000<br>10000 | 152.4<br>304.8<br>3048.0 | 17.0<br>34.0<br>340.0 | 7.7<br>15.5<br>154.5  | 24.0Ω/M'<br>78.7Ω/km | 15.1Ω/M'<br>49.5Ω/km | .261 | 6.63  | 100 | 78% | 13 | 42.7 | 22 | 72 |
| <b>1421A</b> | NEC: CM<br>CEC: CM | 4                             | See Chart 5<br>(Tech Info Section) | 500<br>1000          | 152.4<br>304.8           | 18.5<br>37.0          | 8.4<br>16.8           | 24.0Ω/M'<br>78.7Ω/km | 14.4Ω/M'<br>47.2Ω/km | .280 | 7.11  | 100 | 78% | 13 | 42.7 | 22 | 72 |
| <b>1422A</b> | NEC: CM<br>CEC: CM | 5                             | See Chart 5<br>(Tech Info Section) | 500<br>1000          | 152.4<br>304.8           | 23.0<br>43.0          | 10.5<br>19.5          | 24.0Ω/M'<br>78.7Ω/km | 14.4Ω/M'<br>47.2Ω/km | .294 | 7.47  | 100 | 78% | 13 | 42.7 | 22 | 72 |
| <b>1423A</b> | NEC: CM<br>CEC: CM | 6                             | See Chart 5<br>(Tech Info Section) | 500<br>1000<br>10000 | 152.4<br>304.8<br>3048.0 | 25.0<br>48.0<br>500.0 | 11.4<br>21.8<br>227.3 | 24.0Ω/M'<br>78.7Ω/km | 13.0Ω/M'<br>42.7Ω/km | .319 | 8.10  | 100 | 78% | 13 | 42.7 | 22 | 72 |
| <b>1424A</b> | NEC: CM<br>CEC: CM | 12.5<br>(12 pairs + 1 single) | See Chart 5<br>(Tech Info Section) | 500<br>1000          | 152.4<br>304.8           | 42.0<br>83.0          | 19.1<br>37.7          | 24.0Ω/M'<br>78.7Ω/km | 13.0Ω/M'<br>42.7Ω/km | .418 | 10.62 | 100 | 78% | 13 | 42.7 | 22 | 72 |
| <b>1425A</b> | NEC: CM<br>CEC: CM | 15                            | See Chart 5<br>(Tech Info Section) | 500<br>1000          | 152.4<br>304.8           | 53.0<br>99.0          | 24.1<br>45.0          | 24.0Ω/M'<br>78.7Ω/km | 11.2Ω/M'<br>36.7Ω/km | .473 | 12.01 | 100 | 78% | 13 | 42.7 | 22 | 72 |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.





# Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG Stranded Conductors (7x32) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield▲ • 24 AWG Stranded TC Drain Wire**

## Polyolefin Insulation • Black Matte PVC Jacket

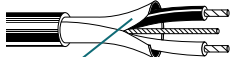
|                              |              |  |   |               |      |       |      |     |      |     |      |     |      |      |    |     |    |     |
|------------------------------|--------------|--|---|---------------|------|-------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| <b>High-Flex</b><br>300V RMS | <b>1508A</b> |  | 1 | Black,<br>Red | 500  | 152.4 | 5.5  | 2.5 | .008 | .20 | .024 | .61 | .131 | 3.33 | 31 | 102 | 58 | 190 |
|                              |              |  |   |               | 1000 | 304.8 | 12.0 | 5.5 |      |     |      |     |      |      |    |     |    |     |



Jacket and shield are bonded so both can be removed with automatic stripping equipment.

## Polypropylene Insulation • Gray PVC Jacket

|          |              |                                |   |               |         |         |      |     |      |     |      |     |      |      |    |     |    |     |
|----------|--------------|--------------------------------|---|---------------|---------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS | <b>1883A</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1 | Black,<br>Red | U-1000* | U-304.8 | 12.0 | 5.5 | .008 | .20 | .020 | .51 | .123 | 3.12 | 31 | 102 | 58 | 190 |
|          |              |                                |   |               | 1000    | 304.8   | 12.0 | 5.5 |      |     |      |     |      |      |    |     |    |     |



Z-Fold®

\* U-1000 ft. put-up also available in Brown, Red, Orange, Yellow, Green, Blue, Violet, White or Black.  
Jacket and shield are bonded so both can be removed with automatic stripping equipment.

## Polyethylene Insulation • Chrome PVC Jacket

|                                  |             |                          |   |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|----------------------------------|-------------|--------------------------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| UL AWM Style 2092<br>(300V 60°C) | <b>8641</b> | NEC:<br>CM<br>CEC:<br>CM | 1 | Black,<br>Clear | 100    | 30.5    | 2.1  | 1.0  | .016 | .41 | .025 | .64 | .168 | 4.27 | 22 | 72 | 42 | 138 |
|                                  |             |                          |   |                 | U-500  | U-152.4 | 7.0  | 3.2  |      |     |      |     |      |      |    |    |    |     |
|                                  |             |                          |   |                 | 500    | 152.4   | 7.0  | 3.2  |      |     |      |     |      |      |    |    |    |     |
|                                  |             |                          |   |                 | U-1000 | U-304.8 | 13.0 | 5.9  |      |     |      |     |      |      |    |    |    |     |
|                                  |             |                          |   |                 | 1000   | 304.8   | 14.0 | 6.4  |      |     |      |     |      |      |    |    |    |     |
|                                  |             |                          |   |                 | 2000   | 609.6   | 26.0 | 11.8 |      |     |      |     |      |      |    |    |    |     |



For Plenum versions of 8641,  
see 88641 or 82641.

## Plenum • FEP Insulation • Red FEP Jacket

|                       |              |                                |   |               |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|---------------|-------|-------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88641</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | Black,<br>Red | 100   | 30.5  | 2.4  | 1.1 | .006 | .15 | .014 | .36 | .106 | 2.69 | 31 | 102 | 59 | 194 |
|                       |              |                                |   |               | 500†  | 152.4 | 6.0  | 2.7 |      |     |      |     |      |      |    |     |    |     |
|                       |              |                                |   |               | 1000† | 304.8 | 11.0 | 5.0 |      |     |      |     |      |      |    |     |    |     |



## Plenum • FEP Insulation • Natural Flamarrest® Jacket

|                       |              |                                |   |               |         |         |      |     |      |     |      |     |      |      |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|---------------|---------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>82641</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | Black,<br>Red | U-1000† | U-304.8 | 9.0  | 4.1 | .006 | .15 | .014 | .36 | .106 | 2.69 | 31 | 102 | 59 | 194 |
|                       |              |                                |   |               | 1000†   | 304.8   | 10.0 | 4.5 |      |     |      |     |      |      |    |     |    |     |
|                       |              |                                |   |               |         |         |      |     |      |     |      |     |      |      |    |     |    |     |



TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

▲ Beldfoil provides high reliability with ease of termination.



By: **INTERSTATEWIRE**  
INCORPORATED

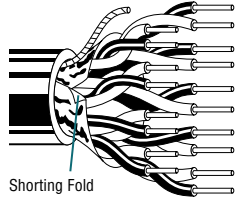
Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

**Overall Beldfoil® Shield**

Audio, Control and Instrumentation Cables

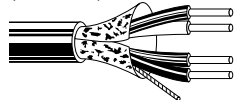
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Nominal Capacitance |            |               |             |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|---------------------|------------|---------------|-------------|
|             |          |                              |                 |               | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | * pF/<br>Ft.        | * pF/<br>m | ** pF/<br>Ft. | ** pF/<br>m |

**22 AWG Solid Conductors • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire****PVC Insulation • Chrome PVC Jacket**UL AWM Style 2464  
(300V 80°C)

|                |             |                                |    |                                           |                                |                                      |                              |                             |             |              |               |           |             |
|----------------|-------------|--------------------------------|----|-------------------------------------------|--------------------------------|--------------------------------------|------------------------------|-----------------------------|-------------|--------------|---------------|-----------|-------------|
|                | <b>9302</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 2  | See<br>Chart 3<br>(Tech Info<br>Section)  | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 15.0<br>15.5<br>30.0<br>30.0 | 6.8<br>7.0<br>13.6<br>13.6  | .013<br>.33 | .032<br>.81  | .244<br>6.20  | 35<br>115 | 50<br>164   |
|                | <b>9305</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 4  | See<br>Chart 3<br>(Tech Info<br>Section)  | 100<br>500<br>U-1000<br>1000   | 30.5<br>152.4<br>U-304.8<br>304.8    | 5.6<br>22.5<br>44.0<br>44.0  | 2.5<br>10.2<br>20.0<br>20.0 | .013<br>.33 | .032<br>.81  | .265<br>6.73  | 35<br>115 | 50<br>164   |
|                | <b>9306</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 6  | See<br>Chart 3<br>(Tech Info<br>Section)  | 500<br>1000                    | 152.4<br>304.8                       | 30.5<br>62.0                 | 13.9<br>28.2                | .013<br>.33 | .032<br>.81  | .315<br>8.00  | 35<br>115 | 50<br>164   |
|                | <b>9309</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 9  | See<br>Chart 3<br>(Tech Info<br>Section)  | 500<br>1000                    | 152.4<br>304.8                       | 44.5<br>86.0                 | 20.2<br>39.1                | .013<br>.33 | .033<br>.84  | .363<br>9.22  | 35<br>115 | 50<br>164   |
|                | <b>9315</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 15 | See<br>Chart 3<br>(Tech Info<br>Section)  | 500<br>1000                    | 152.4<br>304.8                       | 67.0<br>133.0                | 30.5<br>60.5                | .013<br>.33 | .037<br>.94  | .449<br>11.41 | 35<br>115 | 50<br>164   |
|                | <b>9319</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 19 | See<br>Chart 3<br>(Tech Info<br>Section)  | 500<br>1000                    | 152.4<br>304.8                       | 85.0<br>165.0                | 38.6<br>75.0                | .013<br>.33 | .040<br>1.02 | .495<br>12.57 | 35<br>115 | 50<br>164   |
|                | <b>9327</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 27 | See<br>Chart 3<br>(Tech Info<br>Section)  | 500<br>1000                    | 152.4<br>304.8                       | 116.0<br>230.0               | 52.7<br>104.5               | .013<br>.33 | .045<br>1.14 | .615<br>15.62 | 35<br>115 | 50<br>164   |
| 300V RMS, 60°C | <b>8751</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 51 | Request<br>Technical<br>Bulletin<br>T/8-4 | 1000†                          | 304.8                                | 384.0                        | 174.5                       | .010<br>.25 | .050<br>1.27 | .710<br>18.03 | 30<br>98  | 42.8<br>140 |

For 38-pair polypropylene version of 8751, see 8752.

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard Lengths |   | Standard Unit Weight |    | Nom. DCR |        | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |            |               |             |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|----------------------|----|----------|--------|------------|----|---------------------|--------------------------|------------------|------------|---------------|-------------|
|             |          |                              |                 |               | Ft.              | m | Lbs.                 | kg | Cond.    | Shield | Inch       | mm |                     |                          | * pF/<br>Ft.     | * pF/<br>m | ** pF/<br>Ft. | ** pF/<br>m |

**22 AWG Solid Conductors • Tinned Copper • Twisted Pairs • 100% Duofoil® Shield • 22 AWG Stranded Tinned Copper Drain Wire****Datalene® Insulation • Black PVC Jacket**UL AWM Style 2668  
(30V 60°C)

|  |             |            |   |                                     |      |       |      |      |           |          |      |      |     |     |     |      |      |      |
|--|-------------|------------|---|-------------------------------------|------|-------|------|------|-----------|----------|------|------|-----|-----|-----|------|------|------|
|  | <b>9184</b> | NEC:<br>CM | 2 | Black &<br>Yellow,<br>Red &<br>Blue | 500  | 152.4 | 30.5 | 13.9 | 16.5Ω/M'  | 8.0Ω/M'  | .385 | 9.78 | 150 | 78% | 8.7 | 28.5 | 14.1 | 46.3 |
|  |             | CEC:<br>CM |   |                                     | 1000 | 304.8 | 59.0 | 26.8 | 54.13Ω/km | 26.2Ω/km |      |      |     |     |     |      |      |      |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary -0 to +20% from length shown.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.

# Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                 |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG Solid Conductors • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 22 AWG Solid TC Drain Wire\***

## Polypropylene Insulation • Gray or Black PVC Jacket

|                                                                                  |             |      |   |        |         |         |       |      |      |     |      |     |      |      |    |     |    |     |
|----------------------------------------------------------------------------------|-------------|------|---|--------|---------|---------|-------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS 105°C                                                                   | <b>8450</b> | NEC: | 1 | Black, | U-500▲  | U-152.4 | 7.0   | 3.2  | .007 | .18 | .018 | .46 | .118 | 3.00 | 40 | 131 | 76 | 249 |
|  |             | CM   |   | Red    | U-1000▲ | U-304.8 | 13.0  | 5.9  |      |     |      |     |      |      |    |     |    |     |
|                                                                                  |             | CEC: |   |        |         | 1000    | 304.8 | 13.0 | 5.9  |     |      |     |      |      |    |     |    |     |
|                                                                                  |             | CM   |   |        |         |         |       |      |      |     |      |     |      |      |    |     |    |     |



Z-Fold®

\*U-500 ft. and U-1000 ft. put-ups available in Black only.

Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables.

## Polypropylene Insulation • Chrome PVC Jacket

|               |             |  |    |                                      |                                       |               |               |               |             |              |               |          |            |
|---------------|-------------|--|----|--------------------------------------|---------------------------------------|---------------|---------------|---------------|-------------|--------------|---------------|----------|------------|
| 200V RMS 80°C | <b>8752</b> |  | 38 | Request<br>Tech<br>Bulletin<br>T/8-4 | 250 <sup>†</sup><br>1000 <sup>†</sup> | 76.2<br>304.8 | 65.0<br>256.0 | 29.5<br>116.4 | .008<br>.20 | .045<br>1.14 | .610<br>15.50 | 17<br>56 | 24.3<br>80 |
|---------------|-------------|--|----|--------------------------------------|---------------------------------------|---------------|---------------|---------------|-------------|--------------|---------------|----------|------------|



\*8752 has a stranded tinned copper drain wire.

**22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire**

## Semi-rigid PVC Insulation • Pale Fawn Beige Jacket-Striated PVC

|                                  |             |                 |   |                 |                |                  |              |              |              |             |              |           |           |
|----------------------------------|-------------|-----------------|---|-----------------|----------------|------------------|--------------|--------------|--------------|-------------|--------------|-----------|-----------|
| UL AWM Style 2464<br>(300V 80°C) | <b>9414</b> | NEC:<br>CMG     | 1 | White,<br>Black | U-500<br>500   | U-152.4<br>152.4 | 12.0<br>11.5 | 5.5<br>5.2   | .010<br>.254 | .035<br>.89 | .180<br>4.60 | 50<br>164 | 95<br>312 |
|                                  |             | CEC:<br>CMG FT4 |   |                 | U-1000<br>1000 | U-304.8<br>304.8 | 23.0<br>23.0 | 10.5<br>10.5 |              |             |              |           |           |



## PVC Insulation • Chrome PVC Jacket

|                                  |             |                 |   |               |                     |                          |                     |                   |             |             |              |           |           |
|----------------------------------|-------------|-----------------|---|---------------|---------------------|--------------------------|---------------------|-------------------|-------------|-------------|--------------|-----------|-----------|
| UL AWM Style 2464<br>(300V 80°C) | <b>9462</b> | NEC:<br>CMG     | 1 | Black,<br>Red | 100<br>U-500<br>500 | 30.5<br>U-152.4<br>152.4 | 3.0<br>11.0<br>10.5 | 1.4<br>5.0<br>4.8 | .013<br>.33 | .035<br>.89 | .186<br>4.70 | 50<br>164 | 90<br>295 |
|                                  |             | CEC:<br>CMG FT4 |   |               | U-1000<br>1000      | U-304.8<br>304.8         | 21.0<br>21.0        | 9.5<br>9.5        |             |             |              |           |           |



Z-Fold®

## Polyethylene Insulation • Chrome PVC Jacket

|                                  |             |            |   |                 |                                                       |                                               |                                       |                                    |             |             |              |          |           |
|----------------------------------|-------------|------------|---|-----------------|-------------------------------------------------------|-----------------------------------------------|---------------------------------------|------------------------------------|-------------|-------------|--------------|----------|-----------|
| UL AWM Style 2092<br>(300V 60°C) | <b>8761</b> | NEC:<br>CM | 1 | Black,<br>Clear | U-500<br>500                                          | U-152.4<br>152.4                              | 9.0<br>9.0                            | 4.1<br>4.1                         | .016<br>.41 | .025<br>.64 | .175<br>4.45 | 24<br>79 | 47<br>154 |
|                                  |             | CEC:<br>CM |   |                 | U-1000<br>1000<br>2000<br>5000<br>10000 <sup>††</sup> | U-304.8<br>304.8<br>609.6<br>1524.0<br>3048.0 | 17.0<br>18.0<br>34.0<br>90.0<br>170.0 | 7.7<br>8.2<br>15.5<br>40.9<br>77.3 |             |             |              |          |           |



Z-Fold®

For Plenum versions of 8761,  
see 88761, 87761 or 82761.

|                                  |             |            |   |                 |                 |                    |              |            |             |             |              |          |           |
|----------------------------------|-------------|------------|---|-----------------|-----------------|--------------------|--------------|------------|-------------|-------------|--------------|----------|-----------|
| UL AWM Style 2092<br>(300V 60°C) | <b>9461</b> | NEC:<br>CM | 1 | Black,<br>Clear | U-500<br>U-1000 | U-152.4<br>U-304.8 | 11.0<br>21.0 | 5.0<br>9.6 | .016<br>.41 | .026<br>.66 | .180<br>4.57 | 24<br>79 | 47<br>154 |
|----------------------------------|-------------|------------|---|-----------------|-----------------|--------------------|--------------|------------|-------------|-------------|--------------|----------|-----------|



The jacket and shield are bonded so both can be removed on automatic stripping equipment.

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup>Spools are one piece, but length may vary -0 to +20% from length shown.

<sup>††</sup>Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.



Belden  
By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

## Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                 |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG Stranded (7x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire** (continued)

| Polypropylene Insulation • Paper Wrap • Gray or Black PVC Jacket                              |             |      |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|-----------------------------------------------------------------------------------------------|-------------|------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS<br> | <b>8451</b> | NEC: | 1 | Black,<br>Red | 100*   | 30.5    | 2.7  | 1.2 | .008 | .20 | .020 | .51 | .138 | 3.51 | 34 | 111 | 67 | 220 |
|                                                                                               |             | CM   |   |               | U-500  | U-152.4 | 7.5  | 3.4 |      |     |      |     |      |      |    |     |    |     |
|                                                                                               |             | CEC: |   |               | 500    | 152.4   | 8.0  | 3.6 |      |     |      |     |      |      |    |     |    |     |
|                                                                                               |             | CM   |   |               | U-1000 | U-304.8 | 14.0 | 6.4 |      |     |      |     |      |      |    |     |    |     |
|                                                                                               |             |      |   |               | 1000   | 304.8   | 15.0 | 6.8 |      |     |      |     |      |      |    |     |    |     |

Z-Fold®

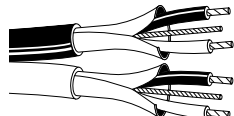
\*100 ft. put-up available in Black only.

Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables. Unique paper separator facilitates jacket stripping.

| Polypropylene Insulation • PVC Jacket (Available in Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Violet or White) |             |         |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|----------------------------------------------------------------------------------------------------------------------------|-------------|---------|---|---------------|---------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS<br>                              | <b>9451</b> | NEC:    | 1 | Black,<br>Red | U-500*  | U-152.4 | 8.0  | 3.6  | .008 | .20 | .020 | .51 | .135 | 3.43 | 34 | 111 | 67 | 220 |
|                                                                                                                            |             | CMR     |   |               | 500*    | 152.4   | 8.0  | 3.6  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                            |             | CEC:    |   |               | T-1000* | T-304.8 | 17.0 | 7.7  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                            |             | CMG FT4 |   |               | U-1000  | U-304.8 | 15.0 | 6.8  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                            |             |         |   |               | 5000    | 1524.0  | 74.5 | 33.9 |      |     |      |     |      |      |    |     |    |     |

\*U-500 ft., 500 ft. and T-1000 ft. put-ups available in Gray only.

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

| Polyolefin Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray) |                     |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|--------------------------------------------------------------------------------------------------------------------|---------------------|---------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V 105°C<br>                   | <b>9451D</b><br>new | NEC:    | 2 | Black,<br>Red | U-1000 | U-304.8 | 28.0 | 12.7 | .008 | .20 | .020 | .51 | .135 | 3.43 | 34 | 112 | 67 | 220 |
|                                                                                                                    |                     | CMR     |   |               | 2000*  | 620.8   | 60.0 | 27.3 |      |     |      |     | x    | x    |    |     |    |     |
|                                                                                                                    |                     | CEC:    |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                    |                     | CMG FT4 |   |               |        |         |      |      |      |     |      |     | .270 | 6.86 |    |     |    |     |
|                                                                                                                    |                     |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |

\*2000 ft. put-up available in Red & Green only.

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

**22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire**

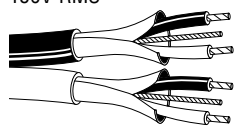
| Polypropylene Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black) |              |      |   |               |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|----------------------------------------------------------------------------------------------------------------------------|--------------|------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| 300V RMS<br>                            | <b>1266A</b> | NEC: | 1 | Black,<br>Red | U-1000 | U-304.8 | 15.0 | 6.8 | .010 | .25 | .020 | .51 | .145 | 3.68 | 30 | 99 | 54 | 177 |
|                                                                                                                            |              | CM   |   |               | 1000†  | 304.8   | 15.0 | 6.8 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                            |              | CEC: |   |               |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                            |              | CM   |   |               |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                            |              |      |   |               |        |         |      |     |      |     |      |     |      |      |    |    |    |     |

†1000 ft. put-up available in Black only.

Unique design features lower capacitance and greater flexibility than standard audio pair constructions.

| PVC Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black) |              |      |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|------------------------------------------------------------------------------------------------------------------|--------------|------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V 90°C<br>                 | <b>1503A</b> | NEC: | 1 | Black,<br>Red | U-1000 | U-304.8 | 16.0 | 7.3 | .010 | .25 | .020 | .51 | .142 | 3.61 | 53 | 174 | 97 | 318 |
|                                                                                                                  |              | CM   |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                  |              | CEC: |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                  |              | CM   |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                  |              |      |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |

**22 AWG Stranded Conductors (19x34) • Tinned Copper • Dual Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire**

| PVC Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)     |              |      |   |               |        |         |      |      |      |     |      |     |      |      |    |     |     |     |
|-----------------------------------------------------------------------------------------------------------------|--------------|------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|-----|-----|
| Stereo Audio<br>150V RMS<br> | <b>1504A</b> | NEC: | 2 | Black,<br>Red | U-1000 | U-304.8 | 33.0 | 15.0 | .010 | .25 | .020 | .51 | .143 | 3.63 | 57 | 187 | 100 | 328 |
|                                                                                                                 |              | CM   |   |               | 2000†† | 609.8   | 68.0 | 30.9 |      |     |      |     | x    | x    |    |     |     |     |
|                                                                                                                 |              | CEC: |   |               |        |         |      |      |      |     |      |     |      |      |    |     |     |     |
|                                                                                                                 |              | CM   |   |               |        |         |      |      |      |     |      |     |      |      |    |     |     |     |
|                                                                                                                 |              |      |   |               |        |         |      |      |      |     |      |     | .286 | 7.26 |    |     |     |     |

††2000 ft. put-up available in Red & Gray or Red & Green only.

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



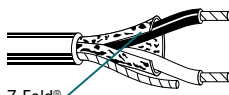
# Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

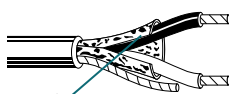
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire**

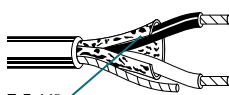
## Plenum • FEP Insulation • Red FEP Jacket

|                                                                                                 |                       |              |         |   |        |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------|-----------------------|--------------|---------|---|--------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
|  <p>Z-Fold®</p> | 300V RMS, Non-conduit | <b>88761</b> | NEC:    | 1 | Black, | 100    | 30.5    | 2.7  | 1.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                 |                       |              | CMP     |   | Red    | U-500  | U-152.4 | 7.0  | 3.2 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              | CEC:    |   |        | 500†   | 152.4   | 7.5  | 3.4 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              | CMP FT6 |   |        | U-1000 | U-304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              |         |   |        | 1000†  | 304.8   | 14.0 | 6.4 |      |     |      |     |      |      |    |     |    |     |

## Plenum • FEP Insulation • Red Fluorocopolymer Jacket

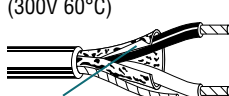
|                                                                                                 |                       |              |         |   |        |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------|-----------------------|--------------|---------|---|--------|-------|-------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
|  <p>Z-Fold®</p> | 300V RMS, Non-conduit | <b>87761</b> | NEC:    | 1 | Black, | 500†  | 152.4 | 7.0  | 3.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                 |                       |              | CMP     |   | Red    | 1000† | 304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              | CEC:    |   |        |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              | CMP FT6 |   |        |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              |         |   |        |       |       |      |     |      |     |      |     |      |      |    |     |    |     |

## Plenum • FEP Insulation • Natural Flamarrest® Jacket

|                                                                                                 |                       |              |         |   |        |         |         |      |     |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------|-----------------------|--------------|---------|---|--------|---------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
|  <p>Z-Fold®</p> | 300V RMS, Non-conduit | <b>82761</b> | NEC:    | 1 | Black, | U-500†  | U-152.4 | 6.5  | 3.0 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                 |                       |              | CMP     |   | Red    | U-1000† | U-304.8 | 12.0 | 5.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              | CEC:    |   |        | 1000†   | 304.8   | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              | CMP FT6 |   |        |         |         |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                 |                       |              |         |   |        |         |         |      |     |      |     |      |     |      |      |    |     |    |     |

**20 AWG Stranded Conductors (7x28) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**

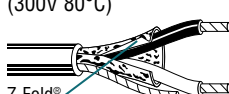
## Polyethylene Insulation • Chrome PVC Jacket

|                                                                                                         |                                  |             |      |   |        |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|---------------------------------------------------------------------------------------------------------|----------------------------------|-------------|------|---|--------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
|  <p>Shorting Fold</p> | UL AWM Style 2092<br>(300V 60°C) | <b>8762</b> | NEC: | 1 | Black, | 100    | 30.5    | 3.2  | 1.5  | .016 | .41 | .028 | .71 | .204 | 5.18 | 27 | 89 | 49 | 161 |
|                                                                                                         |                                  |             | CM   |   | Clear  | 250    | 76.2    | 6.3  | 2.8  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                         |                                  |             | CEC: |   |        | U-500  | U-152.4 | 12.0 | 5.5  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                         |                                  |             | CM   |   |        | 500    | 152.4   | 12.0 | 5.5  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                         |                                  |             |      |   |        | U-1000 | U-304.8 | 23.0 | 10.5 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                         |                                  |             |      |   |        | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                         |                                  |             |      |   |        | 2000   | 609.6   | 46.0 | 20.9 |      |     |      |     |      |      |    |    |    |     |

|                                                                                    |                                  |             |      |   |        |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|------------------------------------------------------------------------------------|----------------------------------|-------------|------|---|--------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
|  | UL AWM Style 2092<br>(300V 60°C) | <b>9464</b> | NEC: | 1 | Black, | U-500  | U-152.4 | 16.5 | 7.5  | .016 | .41 | .035 | .89 | .214 | 5.44 | 27 | 89 | 49 | 161 |
|                                                                                    |                                  |             | CM   |   | Clear  | U-1000 | U-304.8 | 33.0 | 15.0 |      |     |      |     |      |      |    |    |    |     |
|                                                                                    |                                  |             | CEC: |   |        |        |         |      |      |      |     |      |     |      |      |    |    |    |     |

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

## PVC Insulation • Beige PVC Jacket

|                                                                                                   |                                  |             |         |   |        |        |         |      |      |      |     |      |     |      |      |    |     |     |     |
|---------------------------------------------------------------------------------------------------|----------------------------------|-------------|---------|---|--------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|-----|-----|
|  <p>Z-Fold®</p> | UL AWM Style 2464<br>(300V 80°C) | <b>9154</b> | NEC:    | 1 | Black, | U-500  | U-152.4 | 11.5 | 5.2  | .014 | .36 | .031 | .79 | .198 | 5.03 | 60 | 197 | 100 | 328 |
|                                                                                                   |                                  |             | CMG     |   | Red    | 500    | 152.4   | 12.0 | 5.5  |      |     |      |     |      |      |    |     |     |     |
|                                                                                                   |                                  |             | CEC:    |   |        | U-1000 | U-304.8 | 23.0 | 10.5 |      |     |      |     |      |      |    |     |     |     |
|                                                                                                   |                                  |             | CMG FT4 |   |        | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |     |     |
|                                                                                                   |                                  |             |         |   |        |        |         |      |      |      |     |      |     |      |      |    |     |     |     |

9154 has 22 AWG stranded tinned copper drain wire.

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



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**1-800-527-0010**

# Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                 |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**18 AWG Stranded Conductors (16x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**

| Polyethylene Insulation • Chrome PVC Jacket                                                                                                |      |      |   |                 |        |         |       |       |      |     |      |     |      |      |    |    |    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------|------|------|---|-----------------|--------|---------|-------|-------|------|-----|------|-----|------|------|----|----|----|-----|
| <br>UL AWM Style 2092<br>(300V 60°C)<br><br>Shorting Fold | 8760 | NEC: | 1 | Black,<br>Clear | 250    | 76.2    | 6.8   | 3.1   | .019 | .48 | .028 | .71 | .222 | 5.64 | 24 | 79 | 44 | 144 |
|                                                                                                                                            |      | CM   |   |                 | U-500  | U-152.4 | 13.0  | 5.9   |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      | CEC: |   |                 | 500    | 152.4   | 13.0  | 5.9   |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      | CM   |   |                 | U-1000 | U-304.8 | 26.0  | 11.8  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      |      |   |                 | 1000   | 304.8   | 25.0  | 11.4  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      |      |   |                 | 2000   | 609.6   | 50.0  | 22.7  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      |      |   |                 | 5000   | 1524.0  | 135.0 | 61.4  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      |      |   |                 | 10000  | 3048.0  | 260.0 | 118.2 |      |     |      |     |      |      |    |    |    |     |
|                                                           | 9460 | NEC: | 1 | Black,<br>Clear | U-500  | U-152.4 | 18.5  | 8.4   | .019 | .48 | .030 | .76 | .230 | 5.84 | 24 | 79 | 44 | 144 |
|                                                                                                                                            |      | CM   |   |                 | U-1000 | U-304.8 | 36.0  | 16.4  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      | CEC: |   |                 |        |         |       |       |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                            |      | CM   |   |                 |        |         |       |       |      |     |      |     |      |      |    |    |    |     |

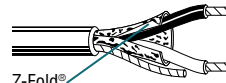
For Plenum versions of 8760,  
see 88760, 87760 or 82760.

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

**18 AWG Stranded Conductors (19x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**

| Plenum • FEP Insulation • Red FEP Jacket                                          |              |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------------------------------------------------------------------|--------------|---------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit                                                             | <b>88760</b> | NEC:    | 1 | Black,<br>Red | 100    | 30.5    | 3.7  | 1.7  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|  |              | CMP     |   |               | U-500  | U-152.4 | 12.5 | 5.7  |      |     |      |     |      |      |    |     |    |     |
|                                                                                   |              | CEC:    |   |               | 500†   | 152.4   | 13.0 | 5.9  |      |     |      |     |      |      |    |     |    |     |
|                                                                                   |              | CMP FT6 |   |               | U-1000 | U-304.8 | 24.0 | 10.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                   |              |         |   |               | 1000†  | 304.8   | 24.0 | 10.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                   |              |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                                                                                   |              |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                                                                                   |              |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |

| Plenum • FEP Insulation • Red Fluorocopolymer Jacket                                                                        |       |         |   |               |       |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------------------------------------------------------------------------------------------------------------|-------|---------|---|---------------|-------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| <br>300V RMS, Non-conduit<br><br>7-Fold® | 87760 | NEC:    | 1 | Black,<br>Red | U-500 | U-152.4 | 12.0 | 5.5  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|                                                                                                                             |       | CMP     |   |               | 500†  | 152.4   | 12.5 | 5.7  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                             |       | CEC:    |   |               | 1000† | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                             |       | CMP FT6 |   |               |       |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                             |       |         |   |               |       |         |      |      |      |     |      |     |      |      |    |     |    |     |

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                                |              |         |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------|--------------|---------|---|---------------|---------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit                                                               | <b>82760</b> | NEC:    | 1 | Black,<br>Red | U-500†  | U-152.4 | 11.5 | 5.2  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|  |              | CMP     |   |               | U-1000† | U-304.8 | 22.0 | 10.0 |      |     |      |     |      |      |    |     |    |     |
|                                                                                     |              | CEC:    |   |               | 1000†   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                     |              | CMP FT6 |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                                                                                     |              |         |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
| Z-Fold®                                                                             |              |         |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

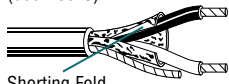
# Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

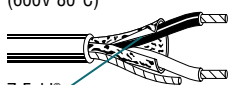
**16 AWG** Stranded Conductors (19x29) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 18 AWG Stranded TC Drain Wire

## Polyethylene Insulation • Chrome PVC Jacket

|                                                                                                                                     |             |                               |   |                 |        |         |       |       |      |     |      |     |      |      |    |    |    |     |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|---|-----------------|--------|---------|-------|-------|------|-----|------|-----|------|------|----|----|----|-----|
| UL AWM Style 20253<br>(600V 80°C)<br> Shorting Fold | <b>8719</b> | NEC:<br>CM, CL2<br>CEC:<br>CM | 1 | Black,<br>Clear | U-500  | U-152.4 | 24.5  | 11.1  | .032 | .81 | .032 | .81 | .313 | 7.95 | 23 | 75 | 44 | 144 |
|                                                                                                                                     |             |                               |   |                 | 500    | 152.4   | 24.5  | 11.1  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                     |             |                               |   |                 | U-1000 | U-304.8 | 47.0  | 21.4  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                     |             |                               |   |                 | 1000   | 304.8   | 49.0  | 22.3  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                     |             |                               |   |                 | 2000   | 609.6   | 100.0 | 45.5  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                     |             |                               |   |                 | 5000   | 1524.0  | 245.0 | 111.4 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                     |             |                               |   |                 | 10000  | 3048.0  | 430.0 | 195.5 |      |     |      |     |      |      |    |    |    |     |

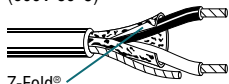
**14 AWG** Stranded Conductors (19x27) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 16 AWG Stranded TC Drain Wire

## Polyethylene Insulation • Chrome PVC Jacket

|                                                                                                                               |             |                               |   |                 |       |         |       |      |      |     |      |     |      |      |    |    |    |     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|---|-----------------|-------|---------|-------|------|------|-----|------|-----|------|------|----|----|----|-----|
| UL AWM Style 20253<br>(600V 80°C)<br> Z-Fold® | <b>8720</b> | NEC:<br>CM, CL2<br>CEC:<br>CM | 1 | Black,<br>Clear | U-500 | U-152.4 | 34.5  | 15.7 | .032 | .81 | .035 | .89 | .355 | 9.02 | 24 | 79 | 47 | 154 |
|                                                                                                                               |             |                               |   |                 | 500   | 152.4   | 34.0  | 15.5 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             |                               |   |                 | 1000  | 304.8   | 71.0  | 32.3 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             |                               |   |                 | 2000  | 609.6   | 138.0 | 62.7 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             |                               |   |                 |       |         |       |      |      |     |      |     |      |      |    |    |    |     |

**12 AWG** Stranded Conductors (19x25) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 14 AWG Stranded TC Drain Wire

## Polyethylene Insulation • Chrome PVC Jacket

|                                                                                                                                |             |                               |   |                 |       |         |       |      |      |     |      |      |      |       |    |    |    |     |
|--------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|---|-----------------|-------|---------|-------|------|------|-----|------|------|------|-------|----|----|----|-----|
| UL AWM Style 20253<br>(600V 80°C)<br> Z-Fold® | <b>8718</b> | NEC:<br>CM, CL2<br>CEC:<br>CM | 1 | Black,<br>Clear | U-500 | U-152.4 | 48.5  | 22.0 | .037 | .94 | .040 | 1.02 | .400 | 10.16 | 25 | 82 | 49 | 161 |
|                                                                                                                                |             |                               |   |                 | 500   | 152.4   | 51.0  | 23.2 |      |     |      |      |      |       |    |    |    |     |
|                                                                                                                                |             |                               |   |                 | 1000  | 304.8   | 100.0 | 45.5 |      |     |      |      |      |       |    |    |    |     |
|                                                                                                                                |             |                               |   |                 | 2000  | 609.6   | 198.0 | 90.0 |      |     |      |      |      |       |    |    |    |     |
|                                                                                                                                |             |                               |   |                 |       |         |       |      |      |     |      |      |      |       |    |    |    |     |

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



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**1-800-527-0010**

## Combination Unshielded and Braid Shield and Overall Braid Shield

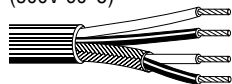
Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Nominal Capacitance |         |            |          |
|-------------|----------|------------------------|--------------|------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|---------------------|---------|------------|----------|
|             |          |                        |              |            | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | * pF/ Ft.           | * pF/ m | ** pF/ Ft. | ** pF/ m |

**Combination • 22 AWG** Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled • 62% TC Braid Shield Over One Pair

### Polyethylene Insulation • Chrome PVC Jacket

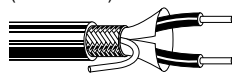
|                                  |             |            |              |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|----------------------------------|-------------|------------|--------------|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| UL AWM Style 2094<br>(300V 60°C) | <b>8732</b> | NEC:<br>CM | 2:<br>1 Shld | Black,<br>Clear | 500    | 152.4   | 19.5 | 8.9  | .020 | .51 | .030 | .76 | .206 | 5.23 | 21 | 69 | 37 | 121 |
|                                  |             | CEC:<br>CM |              | Black,<br>Clear | U-1000 | U-304.8 | 38.0 | 17.3 |      |     |      |     | x    | x    |    |    |    |     |
|                                  |             |            | 1 Unshld     | Black,<br>Clear | 1000   | 304.8   | 39.0 | 17.7 |      |     |      |     | .332 | 8.43 |    |    |    |     |



**Overall Braid • 22 AWG** Solid • Tinned Copper • Twisted Pair • Polyester Tape + 88% TC Braid Shield • 22 AWG Solid TC Drain Wire

### PVC Insulation • Black PVC Jacket

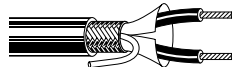
|                                  |             |                 |   |               |      |       |      |      |      |     |      |     |      |      |    |     |    |     |
|----------------------------------|-------------|-----------------|---|---------------|------|-------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| UL AWM Style 2095<br>(300V 80°C) | <b>8437</b> | NEC:<br>CMG     | 1 | Black,<br>Red | 1000 | 304.8 | 25.0 | 11.4 | .015 | .38 | .025 | .64 | .200 | 5.08 | 48 | 157 | 85 | 279 |
|                                  |             | CEC:<br>CMG FT4 |   |               |      |       |      |      |      |     |      |     |      |      |    |     |    |     |



**Overall Braid • 22 AWG** Stranded (7x30) • Tinned Copper • Twisted Pair • Polyester Tape + 86% TC Braid Shield • Stranded TC Drain Wire

### PVC Insulation • Black PVC Jacket

|                                  |             |                 |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|----------------------------------|-------------|-----------------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| UL AWM Style 2095<br>(300V 80°C) | <b>8441</b> | NEC:<br>CMG     | 1 | Black,<br>Red | 100    | 30.5    | 3.6  | 1.6  | .015 | .38 | .025 | .64 | .210 | 5.33 | 49 | 161 | 86 | 282 |
|                                  |             | CEC:<br>CMG FT4 |   |               | U-500  | U-152.4 | 14.0 | 6.4  |      |     |      |     |      |      |    |     |    |     |
|                                  |             |                 |   |               | 500    | 152.4   | 14.0 | 6.4  |      |     |      |     |      |      |    |     |    |     |
|                                  |             |                 |   |               | U-1000 | U-304.8 | 27.0 | 12.3 |      |     |      |     |      |      |    |     |    |     |
|                                  |             |                 |   |               | 1000   | 304.8   | 27.0 | 12.3 |      |     |      |     |      |      |    |     |    |     |



**Overall Braid • 18 AWG** Stranded Conductors (16x30) • Tinned Copper • Twisted Pair • Separator + 73% Tinned Copper Braid Shield

### Rubber Insulation • Chrome PVC Jacket

|               |             |  |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|---------------|-------------|--|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS 80°C | <b>8208</b> |  | 1 | Red,<br>White | 100    | 30.5    | 5.2  | 2.4  | .022 | .56 | .025 | .64 | .257 | 6.53 | 46 | 151 | 77 | 253 |
|               |             |  |   |               | U-500  | U-152.4 | 21.5 | 9.8  |      |     |      |     |      |      |    |     |    |     |
|               |             |  |   |               | 500    | 152.4   | 22.0 | 10.0 |      |     |      |     |      |      |    |     |    |     |
|               |             |  |   |               | U-1000 | U-304.8 | 43.0 | 19.5 |      |     |      |     |      |      |    |     |    |     |
|               |             |  |   |               | 1000   | 304.8   | 43.0 | 19.5 |      |     |      |     |      |      |    |     |    |     |

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



# Overall Spiral Shield

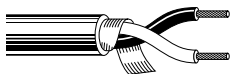
Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**Overall Spiral • 22 AWG** Stranded Conductors (7x30) • Tinned Copper • Twisted Pair • 85% Tinned Copper Spiral Wrapped Shield

## PVC Insulation • Chrome PVC Jacket

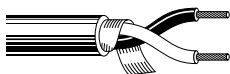
|                                  |             |                 |   |               |                |                  |              |            |             |             |              |    |     |    |     |  |  |  |
|----------------------------------|-------------|-----------------|---|---------------|----------------|------------------|--------------|------------|-------------|-------------|--------------|----|-----|----|-----|--|--|--|
| UL AWM Style 2095<br>(300V 80°C) | <b>8737</b> | NEC:<br>CMG     | 1 | Black,<br>Red | U-500<br>500   | U-152.4<br>152.4 | 10.5<br>10.0 | 4.8<br>4.5 | .015<br>.38 | .025<br>.64 | .180<br>4.57 | 40 | 131 | 70 | 230 |  |  |  |
|                                  |             | CEC:<br>CMG FT4 |   |               | U-1000<br>1000 | U-304.8<br>304.8 | 20.0<br>20.0 | 9.1<br>9.1 |             |             |              |    |     |    |     |  |  |  |



**Overall Spiral • 20 AWG** Stranded Conductors (7x28) • Tinned Copper • Twisted Pair • 89% Tinned Copper Spiral Wrapped Shield

## PVC Insulation • Chrome PVC Jacket

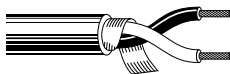
|                                  |             |                 |   |               |                |                  |              |              |             |             |              |    |     |    |     |  |  |  |
|----------------------------------|-------------|-----------------|---|---------------|----------------|------------------|--------------|--------------|-------------|-------------|--------------|----|-----|----|-----|--|--|--|
| UL AWM Style 2095<br>(300V 80°C) | <b>8759</b> | NEC:<br>CMG     | 1 | Black,<br>Red | U-500<br>500   | U-152.4<br>152.4 | 13.0<br>12.0 | 5.9<br>4.5   | .016<br>.41 | .025<br>.64 | .199<br>5.05 | 47 | 154 | 79 | 259 |  |  |  |
|                                  |             | CEC:<br>CMG FT4 |   |               | U-1000<br>1000 | U-304.8<br>304.8 | 25.0<br>25.0 | 11.4<br>11.4 |             |             |              |    |     |    |     |  |  |  |



**Overall Spiral • 18 AWG** Stranded Conductors (7x26) • Tinned Copper • Twisted Pair • 85% Tinned Copper Spiral Wrapped Shield

## PVC Insulation • Chrome PVC Jacket

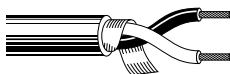
|               |             |                 |   |               |                |                  |              |              |             |             |              |    |     |    |     |  |  |  |
|---------------|-------------|-----------------|---|---------------|----------------|------------------|--------------|--------------|-------------|-------------|--------------|----|-----|----|-----|--|--|--|
| 300V RMS 60°C | <b>8790</b> | NEC:<br>CMG     | 1 | Red,<br>White | U-500<br>500   | U-152.4<br>152.4 | 17.0<br>17.5 | 7.7<br>8.0   | .022<br>.56 | .028<br>.71 | .241<br>6.12 | 53 | 174 | 92 | 302 |  |  |  |
|               |             | CEC:<br>CMG FT4 |   |               | U-1000<br>1000 | U-304.8<br>304.8 | 34.0<br>35.0 | 15.5<br>15.9 |             |             |              |    |     |    |     |  |  |  |



**Overall Spiral • 16 AWG** Stranded Conductors (19x29) • Tinned Copper • Twisted Pair • 85% Tinned Copper Spiral Wrapped Shield

## PVC Insulation • Chrome PVC Jacket

|               |             |                 |   |                 |                |                  |              |              |             |             |              |    |     |    |     |  |  |  |
|---------------|-------------|-----------------|---|-----------------|----------------|------------------|--------------|--------------|-------------|-------------|--------------|----|-----|----|-----|--|--|--|
| 300V RMS 60°C | <b>8780</b> | NEC:<br>CMG     | 1 | Black,<br>White | 500            | 152.4            | 23.5         | 10.7         | .023<br>.58 | .030<br>.76 | .280<br>7.11 | 57 | 187 | 98 | 322 |  |  |  |
|               |             | CEC:<br>CMG FT4 |   |                 | U-1000<br>1000 | U-304.8<br>304.8 | 45.0<br>46.0 | 20.5<br>20.9 |             |             |              |    |     |    |     |  |  |  |



\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



By:



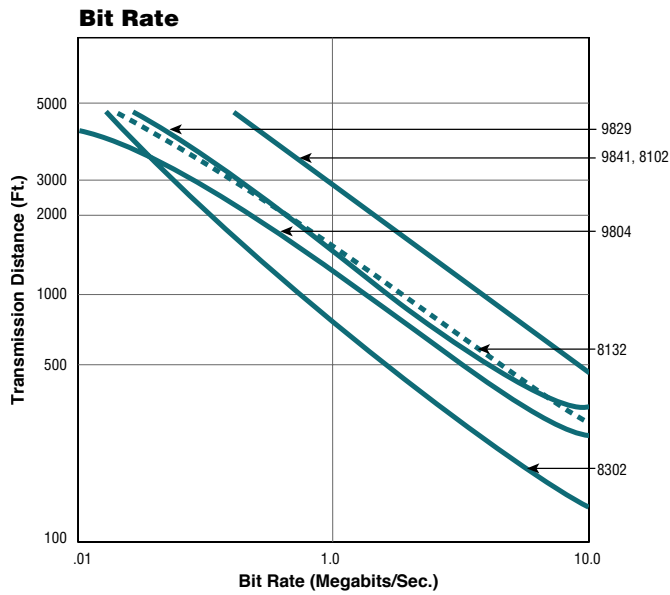
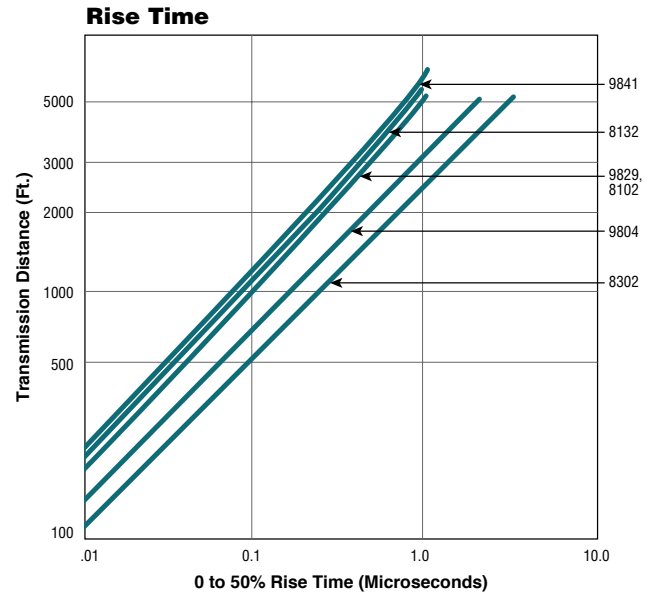
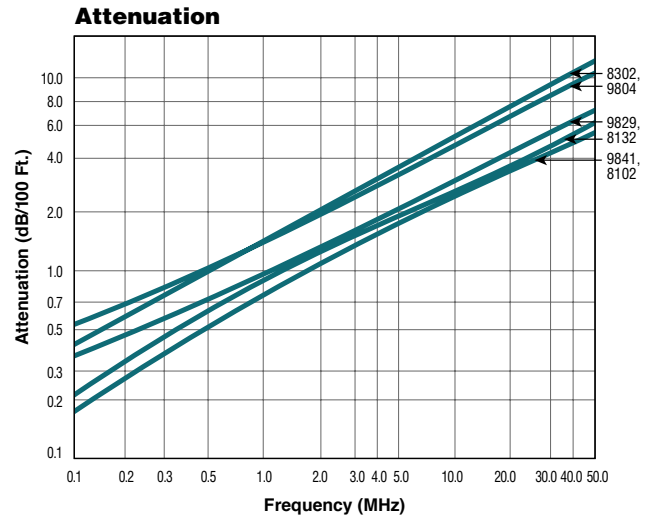
INTERSTATE WIRE  
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1-800-527-0010

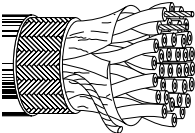
# Overall Foil/Braid Shield

## Cable Characteristics



## Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

| Description                                                                                                                                  | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs                          | Color<br>Code                            | Standard<br>Lengths |       | Standard<br>Unit Weight |           | Nom. DCR  |          | Nominal<br>OD |      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|------------------------------------------|------------------------------------------|---------------------|-------|-------------------------|-----------|-----------|----------|---------------|------|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                              |             |                              |                                          |                                          | Ft.                 | m     | Lbs.                    | kg        | Cond.     | Shield   | Inch          | mm   |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>28 AWG Stranded (7x36) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® + 90% TC Braid Shield • 28 AWG Stranded TC Drain Wire</b> |             |                              |                                          |                                          |                     |       |                         |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>Polypropylene Insulation • Chrome PVC Jacket</b>                                                                                          |             |                              |                                          |                                          |                     |       |                         |           |           |          |               |      |                     |                             |                  |               |                  |                |
|                                                              | <b>9804</b> | NEC:<br>CL2                  | 2                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 3.8                     | 1.7       | 64.9Ω/M'  | 4.9Ω/M'  | .214          | 5.44 | 100                 | 66%                         | 15.5             | 50.9          | 27.5             | 90.2           |
|                                                                                                                                              |             |                              |                                          |                                          | 500                 | 152.4 | 17.5                    | 8.0       | 212.9Ω/km | 16.1Ω/km |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          |                                          | 1000                | 304.8 | 30.0                    | 13.6      |           |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              | <b>9805</b> | NEC:<br>CL2                  | 3                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 4.2                     | 1.9       | 64.9Ω/M'  | 4.2Ω/M'  | .222          | 5.64 | 100                 | 66%                         | 15.5             | 50.9          | 27.5             | 90.2           |
|                                                                                                                                              |             |                              |                                          |                                          | 500                 | 152.4 | 19.5                    | 8.9       | 212.9Ω/km | 13.8Ω/km |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          |                                          | 1000                | 304.8 | 35.0                    | 15.9      |           |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              | <b>9806</b> | NEC:<br>CL2                  | 4                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 4.8                     | 2.2       | 64.9Ω/M'  | 4.0Ω/M'  | .237          | 6.02 | 100                 | 66%                         | 15.5             | 50.9          | 27.5             | 90.2           |
|                                                                                                                                              |             |                              |                                          |                                          | 500                 | 152.4 | 19.5                    | 8.9       | 212.9Ω/km | 13.1Ω/km |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          |                                          | 1000                | 304.8 | 39.0                    | 17.7      |           |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              | <b>9807</b> | NEC:<br>CL2                  | 5                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 4.8                     | 2.2       | 64.9Ω/M'  | 4.2Ω/M'  | .240          | 6.10 | 100                 | 66%                         | 15.5             | 50.9          | 27.5             | 90.2           |
| 500                                                                                                                                          |             |                              |                                          |                                          | 152.4               | 19.5  | 8.9                     | 212.9Ω/km | 13.8Ω/km  |          |               |      |                     |                             |                  |               |                  |                |
| 1000                                                                                                                                         |             |                              |                                          |                                          | 304.8               | 39.0  | 17.7                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>9808</b>                                                                                                                                  | NEC:<br>CL2 | 7                            | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                | 5.3   | 2.4                     | 64.9Ω/M'  | 3.7Ω/M'   | .256     | 6.50          | 100  | 66%                 | 15.5                        | 50.9             | 27.5          | 90.2             |                |
|                                                                                                                                              |             |                              |                                          | 500                                      | 152.4               | 22.5  | 10.2                    | 212.9Ω/km | 12.1Ω/km  |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          | 1000                                     | 304.8               | 44.0  | 20.0                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>9809</b>                                                                                                                                  | NEC:<br>CL2 | 9                            | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                | 6.4   | 2.9                     | 64.9Ω/M'  | 3.1Ω/M'   | .290     | 7.37          | 100  | 66%                 | 15.5                        | 50.9             | 27.5          | 90.2             |                |
|                                                                                                                                              |             |                              |                                          | 500                                      | 152.4               | 27.0  | 12.3                    | 212.9Ω/km | 10.2Ω/km  |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          | 1000                                     | 304.8               | 53.0  | 24.1                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>9812</b>                                                                                                                                  | NEC:<br>CL2 | 12                           | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                | 6.7   | 3.0                     | 64.9Ω/M'  | 2.8Ω/M'   | .319     | 8.10          | 100  | 66%                 | 15.5                        | 50.9             | 27.5          | 90.2             |                |
|                                                                                                                                              |             |                              |                                          | 500                                      | 152.4               | 31.0  | 14.1                    | 212.9Ω/km | 9.2Ω/km   |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          | 1000                                     | 304.8               | 62.0  | 28.2                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>9813</b>                                                                                                                                  | NEC:<br>CL2 | 13                           | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                | 7.0   | 3.2                     | 64.9Ω/M'  | 2.2Ω/M'   | .336     | 8.53          | 100  | 66%                 | 15.5                        | 50.9             | 27.5          | 90.2             |                |
|                                                                                                                                              |             |                              |                                          | 500                                      | 152.4               | 34.0  | 15.5                    | 212.9Ω/km | 7.2Ω/km   |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          | 1000                                     | 304.8               | 66.0  | 30.0                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>9819</b>                                                                                                                                  | NEC:<br>CL2 | 18                           | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                | 8.3   | 3.8                     | 64.9Ω/M'  | 2.0Ω/M'   | .365     | 9.27          | 100  | 66%                 | 15.5                        | 50.9             | 27.5          | 90.2             |                |
|                                                                                                                                              |             |                              |                                          | 500                                      | 152.4               | 41.0  | 18.6                    | 212.9Ω/km | 6.7Ω/km   |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          | 1000                                     | 304.8               | 82.0  | 37.3                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>9825</b>                                                                                                                                  | NEC:<br>CL2 | 25                           | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                | 13.6  | 6.2                     | 64.9Ω/M'  | 1.9Ω/M'   | .429     | 10.90         | 100  | 66%                 | 15.5                        | 50.9             | 27.5          | 90.2             |                |
|                                                                                                                                              |             |                              |                                          | 500                                      | 152.4               | 54.5  | 24.8                    | 212.9Ω/km | 6.2Ω/km   |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          | 1000                                     | 304.8               | 108.0 | 49.1                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>9814</b>                                                                                                                                  | NEC:<br>CL2 | 31                           | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                | 13.4  | 6.1                     | 64.9Ω/M'  | 2.1Ω/M'   | .462     | 11.73         | 100  | 66%                 | 15.5                        | 50.9             | 27.5          | 90.2             |                |
|                                                                                                                                              |             |                              |                                          | 500                                      | 152.4               | 64.0  | 29.1                    | 212.9Ω/km | 6.9Ω/km   |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                              |                                          | 1000                                     | 304.8               | 127.0 | 57.7                    |           |           |          |               |      |                     |                             |                  |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



By:



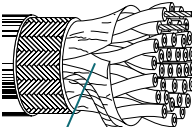
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1-800-527-0010

## Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-485 Applications

| Description                                                                                                                                  | Part No.    | UL NEC/<br>C(UL) CEC<br>Type     | No. of<br>Pairs                          | Color<br>Code                            | Standard<br>Lengths |       | Standard<br>Unit Weight |           | Nom. DCR  |          | Nominal<br>OD |      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|------------------------------------------|------------------------------------------|---------------------|-------|-------------------------|-----------|-----------|----------|---------------|------|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                              |             |                                  |                                          |                                          | Ft.                 | m     | Lbs.                    | kg        | Cond.     | Shield   | Inch          | mm   |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>28 AWG Stranded (7x36) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® + 65% TC Braid Shield • 28 AWG Stranded TC Drain Wire</b> |             |                                  |                                          |                                          |                     |       |                         |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>Datalene® Insulation • Chrome PVC Jacket</b>                                                                                              |             |                                  |                                          |                                          |                     |       |                         |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <br>Shorting Fold                                           | <b>8132</b> | NEC:<br>CL2                      | 2                                        | See<br>Chart 5<br>(Tech Info<br>Section) | 100                 | 30.5  | 3.6                     | 1.6       | 65.0Ω/M'  | 5.1Ω/M'  | .220          | 5.59 | 120                 | 78%                         | 11.0             | 36.1          | 20.0             | 65.6           |
|                                                                                                                                              |             |                                  |                                          |                                          | 500                 | 152.4 | 14.5                    | 6.6       | 213.0Ω/km | 16.6Ω/km |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                                  |                                          |                                          | 1000                | 304.8 | 28.0                    | 12.8      |           |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              | <b>8133</b> | NEC:<br>CL2                      | 3                                        | See<br>Chart 5<br>(Tech Info<br>Section) | 100                 | 30.5  | 4.5                     | 2.0       | 65.0Ω/M'  | 5.2Ω/M'  | .270          | 6.86 | 120                 | 78%                         | 11.0             | 36.1          | 20.0             | 65.6           |
|                                                                                                                                              |             |                                  |                                          |                                          | 500                 | 152.4 | 17.0                    | 7.7       | 213.0Ω/km | 17.1Ω/km |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                                  |                                          |                                          | 1000                | 304.8 | 34.0                    | 15.5      |           |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              | <b>8134</b> | NEC:<br>CL2                      | 4                                        | See<br>Chart 5<br>(Tech Info<br>Section) | 100                 | 30.5  | 5.0                     | 2.3       | 65.0Ω/M'  | 4.4Ω/M'  | .290          | 7.37 | 120                 | 78%                         | 11.0             | 36.1          | 20.0             | 65.6           |
|                                                                                                                                              |             |                                  |                                          |                                          | 500                 | 152.4 | 20.0                    | 9.1       | 213.0Ω/km | 14.3Ω/km |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                                  |                                          |                                          | 1000                | 304.8 | 39.0                    | 17.7      |           |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              | <b>8135</b> | NEC:<br>CL2                      | 5                                        | See<br>Chart 5<br>(Tech Info<br>Section) | 100                 | 30.5  | 5.3                     | 2.4       | 65.0Ω/M'  | 4.2Ω/M'  | .300          | 7.62 | 120                 | 78%                         | 11.0             | 36.1          | 20.0             | 65.6           |
| 500                                                                                                                                          |             |                                  |                                          |                                          | 152.4               | 23.0  | 10.4                    | 213.0Ω/km | 13.8Ω/km  |          |               |      |                     |                             |                  |               |                  |                |
| 1000                                                                                                                                         |             |                                  |                                          |                                          | 304.8               | 46.0  | 20.8                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>8138</b>                                                                                                                                  | NEC:<br>CL2 | 8                                | See<br>Chart 5<br>(Tech Info<br>Section) | 100                                      | 30.5                | 5.6   | 2.5                     | 65.0Ω/M'  | 3.7Ω/M'   | .330     | 8.38          | 120  | 78%                 | 11.0                        | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                              |             |                                  |                                          | 500                                      | 152.4               | 27.0  | 12.3                    | 213.0Ω/km | 12.3Ω/km  |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                                  |                                          | 1000                                     | 304.8               | 52.0  | 23.6                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>8142</b>                                                                                                                                  | NEC:<br>CL2 | 12.5<br>(12 pairs +<br>1 single) | See<br>Chart 5<br>(Tech Info<br>Section) | 100                                      | 30.5                | 7.0   | 3.2                     | 65.0Ω/M'  | 3.1Ω/M'   | .407     | 10.34         | 120  | 78%                 | 11.0                        | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                              |             |                                  |                                          | 500                                      | 152.4               | 34.5  | 15.7                    | 213.0Ω/km | 10.1Ω/km  |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                                  |                                          | 1000                                     | 304.8               | 69.0  | 31.4                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>8148</b>                                                                                                                                  | NEC:<br>CL2 | 18                               | See<br>Chart 5<br>(Tech Info<br>Section) | 100                                      | 30.5                | 12.2  | 5.5                     | 65.0Ω/M'  | 2.6Ω/M'   | .465     | 11.81         | 120  | 78%                 | 11.0                        | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                              |             |                                  |                                          | 500                                      | 152.4               | 47.5  | 21.6                    | 213.0Ω/km | 8.4Ω/km   |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                                  |                                          | 1000                                     | 304.8               | 92.0  | 41.8                    |           |           |          |               |      |                     |                             |                  |               |                  |                |
| <b>8155</b>                                                                                                                                  | NEC:<br>CL2 | 25                               | See<br>Chart 5<br>(Tech Info<br>Section) | 100                                      | 30.5                | 13.1  | 6.0                     | 65.0Ω/M'  | 2.3Ω/M'   | .565     | 14.35         | 120  | 78%                 | 11.0                        | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                              |             |                                  |                                          | 500                                      | 152.4               | 64.0  | 29.1                    | 213.0Ω/km | 7.6Ω/km   |          |               |      |                     |                             |                  |               |                  |                |
|                                                                                                                                              |             |                                  |                                          | 1000                                     | 304.8               | 121.0 | 55.0                    |           |           |          |               |      |                     |                             |                  |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

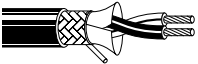
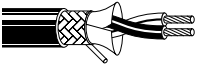
\*\*Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

## Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-485 Applications

Plenum-Rated and Non-Plenum

| Description                                                                                                                           | Part No.                    | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard<br>Lengths |       | Standard<br>Unit Weight |      | Nom. DCR |          | Nominal<br>OD |      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |               |                  |                |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|-----------------|---------------|---------------------|-------|-------------------------|------|----------|----------|---------------|------|---------------------|--------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                       |                             |                              |                 |               | Ft.                 | m     | Lbs.                    | kg   | Cond.    | Shield   | Inch          | mm   |                     |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| 24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® + 90% TC Braid Shield • 24 AWG Stranded TC Drain Wire |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
| Polyethylene Insulation • Chrome PVC Jacket                                                                                           |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                       | 9841                        | NEC:                         | 1               | See           | 100                 | 30.5  | 4.8                     | 2.2  | 24.0Ω/M' | 3.4Ω/M'  | .232          | 5.89 | 120                 | 66%                      | 12.8             | 42.0          | 23.0             | 75.5           |
|                                                                                                                                       |                             | CM                           |                 | Chart 5       | 500                 | 152.4 | 20.0                    | 9.1  | 78.7Ω/km | 11.0Ω/km |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CEC:                         |                 | (Tech Info    | 1000                | 304.8 | 40.0                    | 18.2 |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CM                           |                 | Section)      |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                       | 9842                        | NEC:                         | 2               | See           | 100                 | 30.5  | 5.8                     | 2.6  | 24.0Ω/M' | 2.2Ω/M'  | .340          | 8.64 | 120                 | 66%                      | 12.8             | 42.0          | 23.0             | 75.5           |
|                                                                                                                                       |                             | CM                           |                 | Chart 5       | 500                 | 152.4 | 29.5                    | 13.4 | 78.7Ω/km | 7.2Ω/km  |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CEC:                         |                 | (Tech Info    | 1000                | 304.8 | 57.0                    | 25.9 |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CM                           |                 | Section)      |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                       | 9843                        | NEC:                         | 3               | See           | 100                 | 30.5  | 7.1                     | 3.2  | 24.0Ω/M' | 2.3Ω/M'  | .360          | 9.14 | 120                 | 66%                      | 12.8             | 42.0          | 23.0             | 75.5           |
|                                                                                                                                       |                             | CM                           |                 | Chart 5       | 500                 | 152.4 | 34.5                    | 15.7 | 78.7Ω/km | 7.7Ω/km  |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CEC:                         |                 | (Tech Info    | 1000                | 304.8 | 67.0                    | 30.5 |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CM                           |                 | Section)      |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                       | 9844                        | NEC:                         | 4               | See           | 500                 | 152.4 | 43.0                    | 19.5 | 24.0Ω/M' | 2.1Ω/M'  | .390          | 9.91 | 120                 | 66%                      | 12.8             | 42.0          | 23.0             | 75.5           |
|                                                                                                                                       |                             | CM                           |                 | Chart 5       | 1000                | 304.8 | 83.0                    | 37.7 | 78.7Ω/km | 6.9Ω/km  |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CEC:                         |                 | (Tech Info    |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CM                           |                 | Section)      |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket                                                                             |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                      | 82841<br><small>new</small> | NEC:                         | 1               | See           | 500                 | 152.4 | 16.0                    | 7.3  | 24.0Ω/M' | 3.1Ω/M'  | .204          | 5.18 | 120                 | 76%                      | 12               | 39.4          | 22               | 72.2           |
|                                                                                                                                       |                             | CMP                          |                 | Chart 5       | 1000                | 304.8 | 28.0                    | 12.7 | 78.7Ω/km | 10.2Ω/km |               |      |                     |                          |                  |               |                  |                |
|                                                      |                             | CEC:                         |                 | (Tech Info    |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CMP FT6                      | Section)        |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                     | 82842<br><small>new</small> | NEC:                         | 2               | See           | 500                 | 152.4 | 21.0                    | 9.5  | 24.0Ω/M' | 2.4Ω/M'  | .273          | 6.93 | 120                 | 76%                      | 12               | 39.4          | 22               | 72.2           |
|                                                                                                                                       |                             | CMP                          |                 | Chart 5       | 1000                | 304.8 | 42.0                    | 19.1 | 78.7Ω/km | 7.9Ω/km  |               |      |                     |                          |                  |               |                  |                |
|                                                     |                             | CEC:                         |                 | (Tech Info    |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CMP FT6                      | Section)        |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
| Plenum • Foam FEP Insulation • Red FEP Jacket                                                                                         |                             |                              |                 |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                     | 89841<br><small>new</small> | NEC:                         | 1               | See           | 500                 | 152.4 | 15.5                    | 7.0  | 24.0Ω/M' | 3.1Ω/M'  | .202          | 5.13 | 120                 | 76%                      | 12               | 39.4          | 22               | 72.2           |
|                                                                                                                                       |                             | CMP                          |                 | Chart 5       | 1000                | 304.8 | 29.0                    | 13.2 | 78.7Ω/km | 10.2Ω/km |               |      |                     |                          |                  |               |                  |                |
|                                                     |                             | CEC:                         |                 | (Tech Info    |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                       |                             | CMP FT6                      | Section)        |               |                     |       |                         |      |          |          |               |      |                     |                          |                  |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



By:



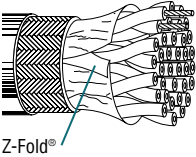
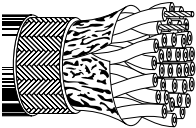
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1-800-527-0010

## Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 Applications

| Description                                                                                                                          | Part No.    | UL NEC/<br>C(UL) CEC<br>Type     | No.<br>of Pairs | Color<br>Code | Standard<br>Lengths |       | Standard<br>Unit Weight |                   | Nom. DCR          |                   | Nominal<br>OD |       | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|-----------------|---------------|---------------------|-------|-------------------------|-------------------|-------------------|-------------------|---------------|-------|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                      |             |                                  |                 |               | Ft.                 | m     | Lbs.                    | kg                | Cond.             | Shield            | Inch          | mm    |                              |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded (7x32) • Tinned Copper • Multi-paired Cable with Overall 100% Beldfoil® + 65% Tinned Copper Braid Shield</b>      |             |                                  |                 |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>Semi-rigid PVC Insulation • Chrome PVC Jacket</b>                                                                                 |             |                                  |                 |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| UL AWM Style 2464<br>(300V 80°C)<br>CSA AWM I A<br> | <b>8332</b> | NEC:                             | 2               | See           | 100                 | 30.5  | 4.6                     | 2.1               | 24.0 $\Omega$ /M' | 5.4 $\Omega$ /M'  | .250          | 6.35  | 75                           | 60%                         | 30               | 98            | 50               | 164            |
|                                                                                                                                      |             | CMG                              |                 | Chart 5       | 500                 | 152.4 | 18.5                    | 8.4               | 78.7 $\Omega$ /km | 17.7 $\Omega$ /km |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      |             | CEC:                             |                 | (Tech Info    | 1000                | 304.8 | 37.0                    | 16.8              |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      |             | CMG FT4                          |                 | Section)      |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8333</b>                                                                                                                          | NEC:        | 3                                | See             | 100           | 30.5                | 5.5   | 2.5                     | 24.0 $\Omega$ /M' | 6.6 $\Omega$ /M'  | .265              | 6.73          | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 500           | 152.4               | 22.5  | 10.3                    | 78.7 $\Omega$ /km | 21.7 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      | 1000          | 304.8               | 44.0  | 20.1                    |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8334</b>                                                                                                                          | NEC:        | 4                                | See             | 100           | 30.5                | 6.0   | 2.7                     | 24.0 $\Omega$ /M' | 4.5 $\Omega$ /M'  | .288              | 7.32          | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 500           | 152.4               | 24.5  | 11.1                    | 78.7 $\Omega$ /km | 14.8 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      | 1000          | 304.8               | 49.0  | 22.3                    |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8335</b>                                                                                                                          | NEC:        | 5                                | See             | 100           | 30.5                | 6.6   | 3.0                     | 24.0 $\Omega$ /M' | 4.6 $\Omega$ /M'  | .295              | 7.49          | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 500           | 152.4               | 28.5  | 13.0                    | 78.7 $\Omega$ /km | 15.1 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      | 1000          | 304.8               | 57.0  | 25.9                    |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8336</b>                                                                                                                          | NEC:        | 6                                | See             | 100           | 30.5                | 6.5   | 3.0                     | 24.0 $\Omega$ /M' | 4.7 $\Omega$ /M'  | .310              | 7.87          | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 500           | 152.4               | 30.5  | 13.9                    | 78.7 $\Omega$ /km | 15.4 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      | 1000          | 304.8               | 62.0  | 28.2                    |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8337</b>                                                                                                                          | NEC:        | 7                                | See             | 100           | 30.5                | 6.8   | 3.1                     | 24.0 $\Omega$ /M' | 4.7 $\Omega$ /M'  | .321              | 8.15          | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 500           | 152.4               | 32.0  | 14.5                    | 78.7 $\Omega$ /km | 15.4 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      | 1000          | 304.8               | 65.0  | 29.5                    |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8340</b>                                                                                                                          | NEC:        | 10                               | See             | 100           | 30.5                | 9.1   | 4.1                     | 24.0 $\Omega$ /M' | 3.5 $\Omega$ /M'  | .385              | 9.78          | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 500           | 152.4               | 45.5  | 20.7                    | 78.7 $\Omega$ /km | 11.5 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      | 1000          | 304.8               | 90.0  | 40.9                    |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8342</b>                                                                                                                          | NEC:        | 12.5<br>(12 pairs +<br>1 single) | See             | 100           | 30.5                | 11.0  | 5.0                     | 24.0 $\Omega$ /M' | 3.6 $\Omega$ /M'  | .405              | 10.29         | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 500           | 152.4               | 55.0  | 25.0                    | 78.7 $\Omega$ /km | 11.8 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      | 1000          | 304.8               | 109.0 | 49.5                    |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8345</b>                                                                                                                          | NEC:        | 15                               | See             | 500           | 152.4               | 61.5  | 28.0                    | 24.0 $\Omega$ /M' | 3.2 $\Omega$ /M'  | .445              | 11.30         | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 1000          | 304.8               | 123.0 | 55.9                    | 78.7 $\Omega$ /km | 10.5 $\Omega$ /km |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| UL AWM Style 2464<br>(300V 80°C)<br>              | <b>8348</b> | NEC:                             | 18              | See           | 100                 | 30.5  | 15.8                    | 7.2               | 24.0 $\Omega$ /M' | 2.7 $\Omega$ /M'  | .480          | 12.19 | 75                           | 60%                         | 30               | 98            | 50               | 164            |
|                                                                                                                                      |             | CMG                              |                 | Chart 5       | 500                 | 152.4 | 78.5                    | 35.8              | 78.7 $\Omega$ /km | 8.9 $\Omega$ /km  |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      |             | CEC:                             |                 | (Tech Info    | 1000                | 304.8 | 152.0                   | 69.3              |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      |             | CMG FT4                          |                 | Section)      |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
| <b>8355</b>                                                                                                                          | NEC:        | 25                               | See             | 500           | 152.4               | 96.5  | 43.9                    | 24.0 $\Omega$ /M' | 2.5 $\Omega$ /M'  | .550              | 13.97         | 75    | 60%                          | 30                          | 98               | 50            | 164              |                |
|                                                                                                                                      | CMG         |                                  | Chart 5         | 1000          | 304.8               | 195.0 | 88.6                    | 78.7 $\Omega$ /km | 8.2 $\Omega$ /km  |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CEC:        |                                  | (Tech Info      |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |
|                                                                                                                                      | CMG FT4     |                                  | Section)        |               |                     |       |                         |                   |                   |                   |               |       |                              |                             |                  |               |                  |                |

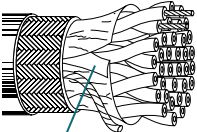
DCR = DC Resistance

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

# Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

| Description                                                                                                                           | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs          | Color<br>Code                            | Standard<br>Lengths                      |                                          | Standard<br>Unit Weight                  |                     | Nom. DCR                                 |                       | Nominal<br>OD          |                      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance    |               |                  |                |      |
|---------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|--------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------------|------------------------------------------|-----------------------|------------------------|----------------------|---------------------|--------------------------|---------------------|---------------|------------------|----------------|------|
|                                                                                                                                       |          |                              |                          |                                          | Ft.                                      | m                                        | Lbs.                                     | kg                  | Cond.                                    | Shield                | Inch                   | mm                   |                     |                          | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |      |
| 24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® + 65% TC Braid Shield • 24 AWG Stranded TC Drain Wire |          |                              |                          |                                          |                                          |                                          |                                          |                     |                                          |                       |                        |                      |                     |                          |                     |               |                  |                |      |
| Polyethylene Insulation • Chrome PVC Jacket                                                                                           |          |                              |                          |                                          |                                          |                                          |                                          |                     |                                          |                       |                        |                      |                     |                          |                     |               |                  |                |      |
| <br>UL AWM Style 2919<br>(30V 80°C)<br><br>Z-Fold®    | 9829     | NEC:<br>CM<br>CEC:<br>CM     | 2                        | See<br>Chart 5<br>(Tech Info<br>Section) | 100<br>500<br>1000                       | 30.5<br>152.4<br>304.8                   | 5.4<br>22.0<br>43.0                      | 2.5<br>10.0<br>19.5 | 24.0Ω/M'<br>78.7Ω/km                     | 4.4Ω/M'<br>14.4Ω/km   | .291<br>7.39           | 100                  | 66%                 | 15.5                     | 50.9                | 27.5          | 90.2             |                |      |
|                                                                                                                                       |          | 9830                         |                          | NEC:<br>CM<br>CEC:<br>CM                 | 3                                        | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000                              | 152.4<br>304.8      | 25.5<br>53.0                             | 11.6<br>24.1          | 24.0Ω/M'<br>78.7Ω/km   | 4.4Ω/M'<br>14.4Ω/km  | .305<br>7.74        | 100                      | 66%                 | 15.5          | 50.9             | 27.5           | 90.2 |
|                                                                                                                                       |          |                              |                          | 9831                                     |                                          |                                          | NEC:<br>CM<br>CEC:<br>CM                 | 4                   | See<br>Chart 5<br>(Tech Info<br>Section) | 100<br>500<br>1000    | 30.5<br>152.4<br>304.8 | 6.2<br>29.0<br>58.0  | 2.8<br>13.2<br>26.4 | 24.0Ω/M'<br>78.7Ω/km     | 3.9Ω/M'<br>12.8Ω/km | .330<br>8.38  | 100              | 66%            | 15.5 |
|                                                                                                                                       | 9832     | NEC:<br>CM<br>CEC:<br>CM     | 5                        |                                          | See<br>Chart 5<br>(Tech Info<br>Section) | 100<br>500<br>1000                       | 30.5<br>152.4<br>304.8                   |                     |                                          | 6.6<br>31.5<br>65.0   | 3.0<br>14.3<br>29.5    | 24.0Ω/M'<br>78.7Ω/km | 3.9Ω/M'<br>12.8Ω/km | .338<br>8.59             | 100                 | 66%           | 15.5             | 50.9           | 27.5 |
|                                                                                                                                       |          | 9839                         |                          | NEC:<br>CM<br>CEC:<br>CM                 |                                          | 6                                        | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000         | 152.4<br>304.8                           | 35.5<br>69.0          | 16.1<br>31.4           | 24.0Ω/M'<br>78.7Ω/km | 2.1Ω/M'<br>6.9Ω/km  | .364<br>9.25             | 100                 | 66%           | 15.5             | 50.9           | 27.5 |
|                                                                                                                                       | 9833     |                              | NEC:<br>CM<br>CEC:<br>CM | 7                                        | See<br>Chart 5<br>(Tech Info<br>Section) |                                          |                                          | 500<br>1000         | 152.4<br>304.8                           | 37.5<br>77.0          | 17.0<br>35.0           | 24.0Ω/M'<br>78.7Ω/km | 3.7Ω/M'<br>12.1Ω/km | .370<br>9.40             | 100                 | 66%           | 15.5             | 50.9           | 27.5 |
|                                                                                                                                       |          | 9834                         | NEC:<br>CM<br>CEC:<br>CM |                                          |                                          | 9                                        | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000         | 152.4<br>304.8                           | 47.0<br>93.0          | 21.4<br>42.3           | 24.0Ω/M'<br>78.7Ω/km | 3.0Ω/M'<br>9.8Ω/km  | .419<br>10.64            | 100                 | 66%           | 15.5             | 50.9           | 27.5 |
|                                                                                                                                       | 9835     |                              | NEC:<br>CM<br>CEC:<br>CM | 10                                       | See<br>Chart 5<br>(Tech Info<br>Section) |                                          |                                          | 500<br>1000         | 152.4<br>304.8                           | 51.5<br>102.0         | 23.4<br>46.4           | 24.0Ω/M'<br>78.7Ω/km | 2.8Ω/M'<br>9.2Ω/km  | .451<br>11.46            | 100                 | 66%           | 15.5             | 50.9           | 27.5 |
|                                                                                                                                       |          | 9836                         | NEC:<br>CM<br>CEC:<br>CM |                                          |                                          | 12                                       | See<br>Chart 5<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8                   | 14.1<br>57.0<br>114.0 | 6.4<br>25.9<br>51.8    | 24.0Ω/M'<br>78.7Ω/km | 2.8Ω/M'<br>9.2Ω/km  | .464<br>11.79            | 100                 | 66%           | 15.5             | 50.9           | 27.5 |
|                                                                                                                                       | 9837     |                              | NEC:<br>CM<br>CEC:<br>CM | 18                                       | See<br>Chart 5<br>(Tech Info<br>Section) |                                          |                                          | 500<br>1000         | 152.4<br>304.8                           | 87.5<br>174.0         | 39.8<br>79.1           | 24.0Ω/M'<br>78.7Ω/km | 2.0Ω/M'<br>6.6Ω/km  | .567<br>14.40            | 100                 | 66%           | 15.5             | 50.9           | 27.5 |
| 9838                                                                                                                                  |          | NEC:<br>CM<br>CEC:<br>CM     | 25                       |                                          |                                          | See<br>Chart 5<br>(Tech Info<br>Section) | 500                                      | 152.4               | 113.0                                    | 51.4                  | 24.0Ω/M'<br>78.7Ω/km   | 1.9Ω/M'<br>6.2Ω/km   | .670<br>17.02       | 100                      | 66%                 | 15.5          | 50.9             | 27.5           | 90.2 |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



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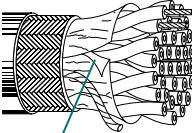
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## Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

| Description                                                                                                                                  | Part No.    | UL NEC/<br>C(UL) CEC<br>Type     | No.<br>of Pairs | Color<br>Code | Standard<br>Lengths |       | Standard<br>Unit Weight |          | Nom. DCR |          | Nominal<br>OD |      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |               |                  |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|-----------------|---------------|---------------------|-------|-------------------------|----------|----------|----------|---------------|------|---------------------|--------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                              |             |                                  |                 |               | Ft.                 | m     | Lbs.                    | kg       | Cond.    | Shield   | Inch          | mm   |                     |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® + 65% TC Braid Shield • 24 AWG Stranded TC Drain Wire</b> |             |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>Datalene® Insulation • Chrome PVC Jacket</b>                                                                                              |             |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <br>Shorting Fold                                           | <b>8102</b> | NEC:                             | 2               | See           | 100                 | 30.5  | 4.8                     | 2.2      | 24.0Ω/M' | 4.6Ω/M'  | .270          | 6.86 | 100                 | 78%                      | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                              |             | CM                               |                 | Chart 5       | 500                 | 152.4 | 19.0                    | 8.6      | 78.7Ω/km | 15.1Ω/km |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | CEC:        | (Tech Info                       | 1000            | 304.8         | 38.0                | 17.3  |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | CM          | Section)                         | 10000           | 3048.0        | 380.0               | 172.7 |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | <b>8103</b> | NEC:                             | 3               | See           | 100                 | 30.5  | 4.6                     | 2.1      | 24.0Ω/M' | 3.8Ω/M'  | .283          | 7.19 | 100                 | 78%                      | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                              |             | CM                               |                 | Chart 5       | 500                 | 152.4 | 21.5                    | 9.8      | 78.7Ω/km | 12.5Ω/km |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | CEC:        | (Tech Info                       | 1000            | 304.8         | 42.0                | 19.1  |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | CM          | Section)                         | 10000           | 3048.0        | 430.0               | 195.5 |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | <b>8104</b> | NEC:                             | 4               | See           | 100                 | 30.5  | 5.1                     | 2.3      | 24.0Ω/M' | 4.1Ω/M'  | .302          | 7.67 | 100                 | 78%                      | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                              |             | CM                               |                 | Chart 5       | 500                 | 152.4 | 23.0                    | 10.5     | 78.7Ω/km | 13.5Ω/km |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | CEC:        | (Tech Info                       | 1000            | 304.8         | 46.0                | 20.9  |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
|                                                                                                                                              | CM          | Section)                         | 10000           | 3048.0        | 490.0               | 222.7 |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8105</b>                                                                                                                                  | NEC:        | 5                                | See             | 100           | 30.5                | 5.8   | 2.6                     | 24.0Ω/M' | 4.2Ω/M'  | .316     | 8.03          | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 28.0  | 12.7                    | 78.7Ω/km | 13.8Ω/km |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 53.0          | 24.1                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8106</b>                                                                                                                                  | NEC:        | 6                                | See             | 100           | 30.5                | 6.3   | 2.9                     | 24.0Ω/M' | 3.5Ω/M'  | .341     | 8.66          | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 30.5  | 13.9                    | 78.7Ω/km | 11.5Ω/km |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 58.0          | 26.4                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8107</b>                                                                                                                                  | NEC:        | 7                                | See             | 100           | 30.5                | 6.8   | 3.1                     | 24.0Ω/M' | 3.5Ω/M'  | .341     | 8.66          | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 33.0  | 15.0                    | 78.7Ω/km | 11.5Ω/km |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 63.0          | 28.6                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8108</b>                                                                                                                                  | NEC:        | 8                                | See             | 100           | 30.5                | 7.6   | 3.5                     | 24.0Ω/M' | 2.7Ω/M'  | .370     | 9.40          | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 37.5  | 17.1                    | 78.7Ω/km | 8.9Ω/km  |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 72.0          | 32.8                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8110</b>                                                                                                                                  | NEC:        | 10                               | See             | 100           | 30.5                | 9.9   | 4.5                     | 24.0Ω/M' | 2.4Ω/M'  | .427     | 10.85         | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 45.5  | 20.7                    | 78.7Ω/km | 7.9Ω/km  |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 90.0          | 40.9                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8112</b>                                                                                                                                  | NEC:        | 12.5<br>(12 pairs +<br>1 single) | See             | 100           | 30.5                | 10.5  | 4.8                     | 24.0Ω/M' | 2.4Ω/M'  | .440     | 11.18         | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 49.0  | 22.3                    | 78.7Ω/km | 7.9Ω/km  |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 97.0          | 44.1                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8115</b>                                                                                                                                  | NEC:        | 15                               | See             | 500           | 152.4               | 63.5  | 28.9                    | 24.0Ω/M' | 2.6Ω/M'  | .495     | 12.57         | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 1000          | 304.8               | 116.0 | 52.7                    | 78.7Ω/km | 8.5Ω/km  |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8118</b>                                                                                                                                  | NEC:        | 18                               | See             | 100           | 30.5                | 16.3  | 7.4                     | 24.0Ω/M' | 2.1Ω/M'  | .537     | 13.64         | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 70.5  | 32.0                    | 78.7Ω/km | 6.9Ω/km  |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 144.0         | 65.5                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| <b>8125</b>                                                                                                                                  | NEC:        | 25                               | See             | 100           | 30.5                | 22.4  | 10.2                    | 24.0Ω/M' | 2.0Ω/M'  | .632     | 16.05         | 100  | 78%                 | 12.5                     | 41               | 22            | 72.2             |                |
|                                                                                                                                              | CM          |                                  | Chart 5         | 500           | 152.4               | 98.0  | 44.5                    | 78.7Ω/km | 6.6Ω/km  |          |               |      |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                                         | (Tech Info  | 1000                             | 304.8           | 191.0         | 86.8                |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                           | Section)    |                                  |                 |               |                     |       |                         |          |          |          |               |      |                     |                          |                  |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

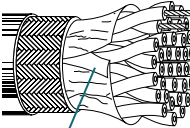
Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.





# Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 Applications

| Description                                                                                                                 | Part No.                         | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code                            | Standard<br>Lengths                      |                                          | Standard<br>Unit Weight                  |       | Nom. DCR |          | Nominal<br>OD |          | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |               |                  |                |          |      |      |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|-----------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|-------|----------|----------|---------------|----------|---------------------|--------------------------|------------------|---------------|------------------|----------------|----------|------|------|
|                                                                                                                             |                                  |                              |                 |                                          | Ft.                                      | m                                        | Lbs.                                     | kg    | Cond.    | Shield   | Inch          | mm       |                     |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |          |      |      |
| 22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® + 65% Tinned Copper Braid Shield |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| Semi-rigid PVC Insulation • Chrome PVC Jacket                                                                               |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| <br>Z-Fold®                                 | 8302                             | NEC:                         | 2               | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5                                     | 5.2                                      | 2.4   | 15.0Ω/M' | 5.7Ω/M'  | .260          | 6.60     | 70                  | 60%                      | 40               | 131           | 72               | 236            |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          | 500                                      | 152.4                                    | 21.0                                     | 9.6   | 49.2Ω/km | 18.7Ω/km |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CEC:                         |                 |                                          | 1000                                     | 304.8                                    | 41.0                                     | 18.6  |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG FT4                      |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | 8303                         |                 |                                          | NEC:                                     | 3                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 100   | 30.5     | 6.0      | 2.7           | 15.0Ω/M' |                     |                          |                  |               |                  |                | 6.2Ω/M'  | .270 | 6.86 |
|                                                                                                                             |                                  |                              |                 |                                          | CMG                                      |                                          |                                          | 500   | 152.4    | 25.0     | 11.4          | 49.2Ω/km |                     |                          |                  |               |                  |                | 20.3Ω/km |      |      |
|                                                                                                                             |                                  |                              |                 |                                          | CEC:                                     |                                          |                                          | 1000  | 304.8    | 49.0     | 22.3          |          |                     |                          |                  |               |                  |                |          |      |      |
| CMG FT4                                                                                                                     |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| 8304                                                                                                                        | NEC:                             |                              | 4               | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      |                                          |                                          | 30.5  | 6.7      | 3.0      | 15.0Ω/M'      | 4.9Ω/M'  | .320                | 8.13                     |                  |               |                  |                |          |      |      |
|                                                                                                                             | CMG                              |                              |                 |                                          | 500                                      |                                          |                                          | 152.4 | 31.5     | 14.3     | 49.2Ω/km      | 16.1Ω/km |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CEC:                             | 1000                         |                 |                                          | 304.8                                    | 65.0                                     | 29.5                                     |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CMG FT4                          |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | 8305                             | NEC:                         |                 |                                          | 5                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5  | 7.3      | 3.3      | 15.0Ω/M'      | 4.8Ω/M'  | .322                | 8.18                     |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          |                                          |                                          | 500                                      | 152.4 | 34.5     | 15.7     | 49.2Ω/km      | 15.7Ω/km |                     |                          |                  |               |                  |                |          |      |      |
| CEC:                                                                                                                        |                                  | 1000                         | 304.8           | 68.0                                     |                                          |                                          | 30.9                                     |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| CMG FT4                                                                                                                     |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| 8306                                                                                                                        |                                  | NEC:                         | 6               | See<br>Chart 3<br>(Tech Info<br>Section) |                                          |                                          | 100                                      | 30.5  | 8.0      | 3.6      | 15.0Ω/M'      | 5.0Ω/M'  | .348                | 8.84                     |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          |                                          |                                          | 500                                      | 152.4 | 39.5     | 18.0     | 49.2Ω/km      | 16.4Ω/km |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CEC:                             | 1000                         |                 |                                          | 304.8                                    | 76.0                                     | 34.5                                     |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CMG FT4                          |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | 8307                             | NEC:                         |                 |                                          | 7                                        | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5  | 8.6      | 3.9      | 15.0Ω/M'      | 5.0Ω/M'  | .348                | 8.84                     |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          |                                          |                                          | 500                                      | 152.4 | 41.5     | 18.9     | 49.2Ω/km      | 16.4Ω/km |                     |                          |                  |               |                  |                |          |      |      |
| CEC:                                                                                                                        |                                  | 1000                         | 304.8           | 82.0                                     |                                          |                                          | 37.3                                     |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| CMG FT4                                                                                                                     |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| 8308                                                                                                                        |                                  | NEC:                         | 8               | See<br>Chart 3<br>(Tech Info<br>Section) |                                          |                                          | 100                                      | 30.5  | 10.4     | 4.7      | 15.0Ω/M'      | 4.4Ω/M'  | .384                | 9.75                     |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          |                                          |                                          | 500                                      | 152.4 | 52.0     | 23.7     | 49.2Ω/km      | 14.4Ω/km |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CEC:                             | 1000                         |                 |                                          | 304.8                                    | 101.0                                    | 46.0                                     |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CMG FT4                          |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | UL AWM Style 2464<br>(300V 80°C) | 8310                         |                 |                                          | NEC:                                     | 10                                       | See<br>Chart 3<br>(Tech Info<br>Section) | 100   | 30.5     | 12.9     | 5.9           | 15.0Ω/M' | 4.1Ω/M'             | .440                     | 11.18            |               |                  |                |          |      |      |
|                                                                                                                             |                                  |                              |                 |                                          | CMG                                      |                                          |                                          | 500   | 152.4    | 61.0     | 27.7          | 49.2Ω/km | 13.4Ω/km            |                          |                  |               |                  |                |          |      |      |
| CEC:                                                                                                                        |                                  |                              | 1000            | 304.8                                    | 123.0                                    |                                          |                                          | 55.9  |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| CMG FT4                                                                                                                     |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| 8312                                                                                                                        |                                  |                              | NEC:            | 12.5<br>(12 pairs +<br>1 single)         | See<br>Chart 3<br>(Tech Info<br>Section) |                                          |                                          | 100   | 30.5     | 14.6     | 6.7           | 15.0Ω/M' | 4.2Ω/M'             | .455                     | 11.56            |               |                  |                |          |      |      |
|                                                                                                                             |                                  |                              | CMG             |                                          |                                          |                                          |                                          | 500   | 152.4    | 72.0     | 32.8          | 49.2Ω/km | 13.8Ω/km            |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  |                              | CEC:            |                                          |                                          |                                          |                                          | 1000  | 304.8    | 140.0    | 63.8          |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CMG FT4                          |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | 8315                             | NEC:                         | 15              |                                          |                                          | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5  | 17.3     | 7.9      | 15.0Ω/M'      | 3.8Ω/M'  | .502                | 12.75                    |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          |                                          |                                          | 500                                      | 152.4 | 85.5     | 39.0     | 49.2Ω/km      | 12.5Ω/km |                     |                          |                  |               |                  |                |          |      |      |
| CEC:                                                                                                                        |                                  | 1000                         |                 | 304.8                                    | 167.0                                    |                                          | 76.1                                     |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| CMG FT4                                                                                                                     |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| 8318                                                                                                                        |                                  | NEC:                         |                 | 18                                       | See<br>Chart 3<br>(Tech Info<br>Section) |                                          | 100                                      | 30.5  | 19.6     | 8.9      | 15.0Ω/M'      | 3.0Ω/M'  | .535                | 13.59                    |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          |                                          |                                          | 500                                      | 152.4 | 97.0     | 44.1     | 49.2Ω/km      | 9.8Ω/km  |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CEC:                             | 1000                         | 304.8           |                                          |                                          | 196.0                                    | 89.1                                     |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | CMG FT4                          |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
|                                                                                                                             | 8325                             | NEC:                         | 25              |                                          |                                          | See<br>Chart 3<br>(Tech Info<br>Section) | 100                                      | 30.5  | 25.1     | 11.4     | 15.0Ω/M'      | 2.9Ω/M'  | .620                | 15.75                    |                  |               |                  |                |          |      |      |
|                                                                                                                             |                                  | CMG                          |                 |                                          |                                          |                                          | 500                                      | 152.4 | 126.0    | 57.4     | 49.2Ω/km      | 9.5Ω/km  |                     |                          |                  |               |                  |                |          |      |      |
| CEC:                                                                                                                        |                                  | 1000                         |                 | 304.8                                    | 246.0                                    |                                          | 112.1                                    |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |
| CMG FT4                                                                                                                     |                                  |                              |                 |                                          |                                          |                                          |                                          |       |          |          |               |          |                     |                          |                  |               |                  |                |          |      |      |

DCR = DC Resistance

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



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## Overall Foil/Braid Shield

Computer P.O.S. Cables

Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | *<br>pF/<br>ft.  | *<br>pF/<br>m | **<br>pF/<br>ft. | **<br>pF/<br>m |

**22 AWG Solid • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® Shield + 90% TC Braid • 22 AWG Solid TC Drain Wire**

### Polyethylene Insulation • Black PVC Jacket

|                                  |              |                          |   |                                         |      |       |      |      |                                        |                                       |      |      |     |     |      |      |      |      |
|----------------------------------|--------------|--------------------------|---|-----------------------------------------|------|-------|------|------|----------------------------------------|---------------------------------------|------|------|-----|-----|------|------|------|------|
| UL AWM Style 2582<br>(150V 60°C) | <b>1268A</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | Red &<br>Blue,<br><br>Black &<br>Yellow | 1000 | 304.8 | 48.0 | 21.8 | 16.5 $\Omega$ /M'<br>54.1 $\Omega$ /km | 3.7 $\Omega$ /M'<br>12.1 $\Omega$ /km | .270 | 6.86 | 100 | 66% | 15.5 | 50.9 | 27.5 | 90.2 |
|----------------------------------|--------------|--------------------------|---|-----------------------------------------|------|-------|------|------|----------------------------------------|---------------------------------------|------|------|-----|-----|------|------|------|------|



For Plenum version of 1268A,  
see 1269A.

### Plenum • Solid FEP Insulation • Black FEP Jacket

|                       |              |                                             |   |                                         |       |       |      |      |                                        |                                      |      |      |     |       |      |      |      |      |
|-----------------------|--------------|---------------------------------------------|---|-----------------------------------------|-------|-------|------|------|----------------------------------------|--------------------------------------|------|------|-----|-------|------|------|------|------|
| 300V RMS, Non-conduit | <b>1269A</b> | NEC:<br>MPP, CMP<br>CEC:<br>MPP,<br>CMP FT6 | 2 | Red &<br>Blue,<br><br>Black &<br>Yellow | 1000† | 304.8 | 48.0 | 21.8 | 16.5 $\Omega$ /M'<br>54.1 $\Omega$ /km | 2.1 $\Omega$ /M'<br>6.9 $\Omega$ /km | .240 | 6.10 | 100 | 69.5% | 15.5 | 50.9 | 27.0 | 88.6 |
|-----------------------|--------------|---------------------------------------------|---|-----------------------------------------|-------|-------|------|------|----------------------------------------|--------------------------------------|------|------|-----|-------|------|------|------|------|



**22 AWG Solid • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil + 58% TC Braid Shield • 22 AWG Solid TC Drain Wire**

### Polyethylene Insulation • Black PVC Jacket

|                                  |             |                          |   |                                         |              |                  |              |            |                                        |                                       |      |      |     |     |      |      |      |      |
|----------------------------------|-------------|--------------------------|---|-----------------------------------------|--------------|------------------|--------------|------------|----------------------------------------|---------------------------------------|------|------|-----|-----|------|------|------|------|
| UL AWM Style 2582<br>(150V 60°C) | <b>9855</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | Red &<br>Blue,<br><br>Black &<br>Yellow | U-500<br>500 | U-152.4<br>152.4 | 20.0<br>20.5 | 9.1<br>9.3 | 16.5 $\Omega$ /M'<br>54.1 $\Omega$ /km | 4.2 $\Omega$ /M'<br>13.8 $\Omega$ /km | .270 | 6.86 | 100 | 66% | 15.5 | 50.9 | 27.5 | 90.2 |
|----------------------------------|-------------|--------------------------|---|-----------------------------------------|--------------|------------------|--------------|------------|----------------------------------------|---------------------------------------|------|------|-----|-----|------|------|------|------|



For Plenum version of 9855,  
see 89855.

**22 AWG Solid • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil + 55% TC Braid Shield plus Polyester Tape • 22 AWG Solid TC Drain Wire**

### Plenum • Solid FEP Insulation • Black FEP Jacket

|                       |              |                                             |   |                                                    |               |                |              |              |                                        |                                       |      |      |     |       |      |      |      |      |
|-----------------------|--------------|---------------------------------------------|---|----------------------------------------------------|---------------|----------------|--------------|--------------|----------------------------------------|---------------------------------------|------|------|-----|-------|------|------|------|------|
| 300V RMS, Non-conduit | <b>89855</b> | NEC:<br>MPP, CMP<br>CEC:<br>MPP,<br>CMP FT6 | 2 | 1 Pair:<br>Red & Blue<br>1 Pair:<br>Black & Yellow | 500†<br>1000† | 152.4<br>304.8 | 24.0<br>42.0 | 10.9<br>19.1 | 16.5 $\Omega$ /M'<br>54.1 $\Omega$ /km | 4.9 $\Omega$ /M'<br>16.1 $\Omega$ /km | .272 | 6.91 | 100 | 69.5% | 15.5 | 50.9 | 27.0 | 88.6 |
|-----------------------|--------------|---------------------------------------------|---|----------------------------------------------------|---------------|----------------|--------------|--------------|----------------------------------------|---------------------------------------|------|------|-----|-------|------|------|------|------|



**22 AWG Solid • Bare Copper • Twisted Pairs • Overall 100% Beldfoil Shield + 58% TC Braid • 22 AWG Solid TC Drain Wire**

### Polyethylene Insulation • Black PVC Jacket

|                                 |             |                          |   |                                                                                                |             |                |              |              |                                        |                                       |      |      |     |     |      |      |      |      |
|---------------------------------|-------------|--------------------------|---|------------------------------------------------------------------------------------------------|-------------|----------------|--------------|--------------|----------------------------------------|---------------------------------------|------|------|-----|-----|------|------|------|------|
| UL AWM Style 2919<br>(30V 80°C) | <b>9696</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | 1 Pair:<br>Blue & White<br>with Blue Stripe<br>1 Pair:<br>Orange & White<br>with Orange Stripe | 500<br>1000 | 152.4<br>304.8 | 22.5<br>44.0 | 10.2<br>20.0 | 14.2 $\Omega$ /M'<br>46.6 $\Omega$ /km | 4.2 $\Omega$ /M'<br>13.8 $\Omega$ /km | .290 | 7.37 | 100 | 66% | 16.0 | 52.5 | 27.5 | 90.2 |
|---------------------------------|-------------|--------------------------|---|------------------------------------------------------------------------------------------------|-------------|----------------|--------------|--------------|----------------------------------------|---------------------------------------|------|------|-----|-----|------|------|------|------|



For Plenum version of 9696,  
see 89696.

**22 AWG Solid • Bare Copper • Twisted Pairs • Overall 100% Beldfoil Shield + 55% TC Braid • 22 AWG Solid TC Drain Wire**

### Plenum • Solid FEP Insulation • Black FEP Jacket

|                       |              |                                             |   |                                                                                                |               |                |              |              |                                        |                                       |      |      |     |       |      |      |      |      |
|-----------------------|--------------|---------------------------------------------|---|------------------------------------------------------------------------------------------------|---------------|----------------|--------------|--------------|----------------------------------------|---------------------------------------|------|------|-----|-------|------|------|------|------|
| 300V RMS, Non-conduit | <b>89696</b> | NEC:<br>MPP, CMP<br>CEC:<br>MPP,<br>CMP FT6 | 2 | 1 Pair:<br>Blue & White<br>with Blue Stripe<br>1 Pair:<br>Orange & White<br>with Orange Stripe | 500†<br>1000† | 152.4<br>304.8 | 25.0<br>47.0 | 11.4<br>21.4 | 16.5 $\Omega$ /M'<br>54.1 $\Omega$ /km | 4.2 $\Omega$ /M'<br>13.8 $\Omega$ /km | .262 | 6.65 | 100 | 69.5% | 15.5 | 50.9 | 27.0 | 88.6 |
|-----------------------|--------------|---------------------------------------------|---|------------------------------------------------------------------------------------------------|---------------|----------------|--------------|--------------|----------------------------------------|---------------------------------------|------|------|-----|-------|------|------|------|------|



DCR = DC Resistance • TC = Tinned Copper

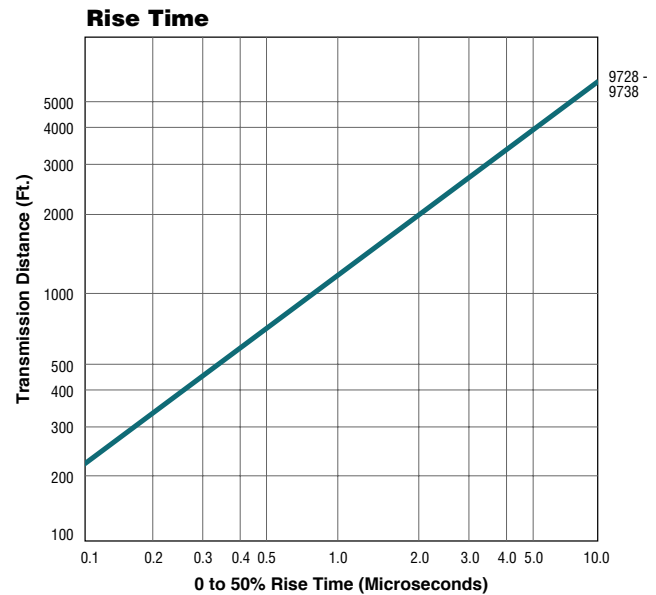
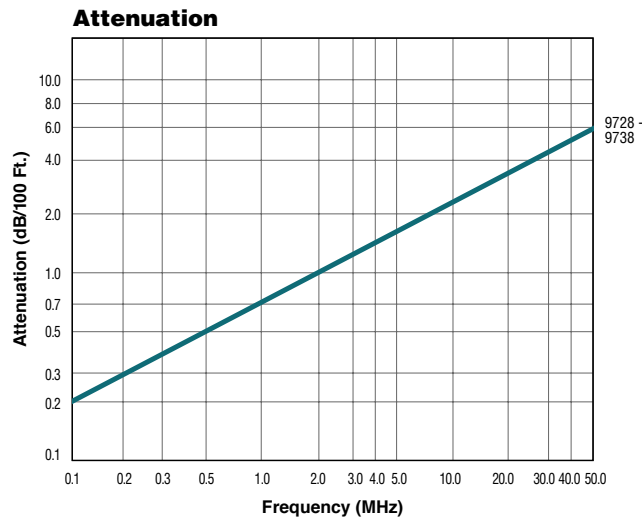
\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

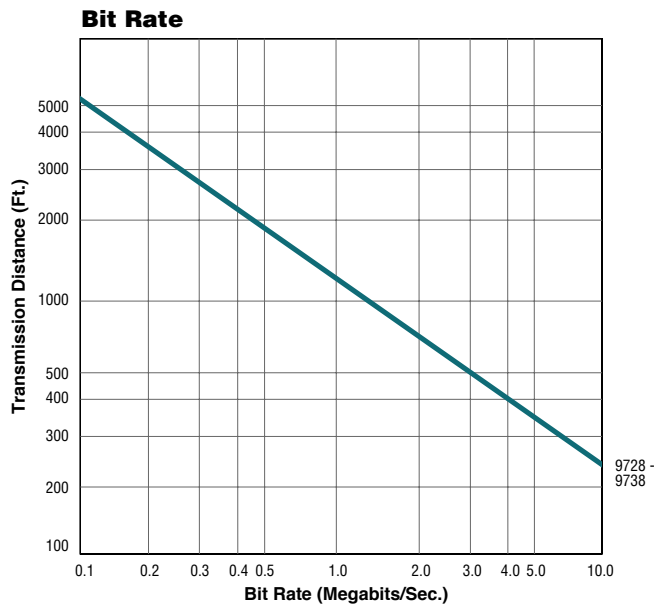
† Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

# Individually Shielded

## Cable Characteristics



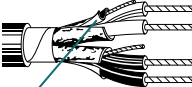
Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.



Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

# Individually Shielded

Low-Capacitance 100 Ohm Computer Cables for EIA RS-422 and Digital Audio Applications

| Description                                                                                                                               | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard<br>Lengths |          | Standard<br>Unit Weight |          | Nom. DCR |                                           | Nominal<br>OD                                      |      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |               |                  |                |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|-----------------|---------------|---------------------|----------|-------------------------|----------|----------|-------------------------------------------|----------------------------------------------------|------|---------------------|--------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                           |             |                              |                 |               | Ft.                 | m        | Lbs.                    | kg       | Cond.    | Shield                                    | Inch                                               | mm   |                     |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 24 AWG Stranded TC Drain Wire</b> |             |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| <b>Datalene® Insulation • Chrome PVC Jacket</b>                                                                                           |             |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| <br>UL AWM Style 2493<br>(300V 60°C)<br><br>Z-Fold®      | <b>9729</b> | NEC:                         | 2               | See           | 100                 | 30.5     | 4.3                     | 2.0      | 24.0Ω/M' | 18.0Ω/M'                                  | .317                                               | 8.05 | 100                 | 78%                      | 12.5             | 41.0          | 23.2             | 76.1           |
|                                                                                                                                           |             | CM                           |                 | Chart 3       | 500                 | 152.4    | 20.5                    | 9.3      | 78.7Ω/km | 59.1Ω/km                                  |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           |             | CEC:                         |                 | (Tech Info    | 1000                | 304.8    | 39.0                    | 17.7     |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CM          | Section)                     | 10000           | 3048.0        | 390.0               | 177.8    |                         |          |          |                                           | For Plenum version of 9729,<br>see 89729 or 82729. |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | <b>9730</b> | NEC:                         | 3               | See           | 100                 | 30.5     | 5.1                     | 2.3      | 24.0Ω/M' | 18.0Ω/M'                                  | .334                                               | 8.48 | 100                 | 78%                      | 12.5             | 41.0          | 23.2             | 76.1           |
|                                                                                                                                           |             | CM                           |                 | Chart 3       | 500                 | 152.4    | 24.5                    | 11.1     | 78.7Ω/km | 59.1Ω/km                                  |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           |             | CEC:                         |                 | (Tech Info    | 1000                | 304.8    | 46.0                    | 20.9     |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CM          | Section)                     | 10000           | 3048.0        | 520.0               | 236.4    |                         |          |          |                                           | For Plenum version of 9730,<br>see 89730.          |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | <b>9728</b> | NEC:                         | 4               | See           | 100                 | 30.5     | 6.0                     | 2.7      | 24.0Ω/M' | 18.0Ω/M'                                  | .363                                               | 9.22 | 100                 | 78%                      | 12.5             | 41.0          | 23.2             | 76.1           |
|                                                                                                                                           |             | CM                           |                 | Chart 3       | 500                 | 152.4    | 28.5                    | 13.0     | 78.7Ω/km | 59.1Ω/km                                  |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           |             | CEC:                         |                 | (Tech Info    | 1000                | 304.8    | 55.0                    | 25.0     |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          | For Plenum version of 9728,<br>see 89728. |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9731</b>                                                                                                                               | NEC:        | 6                            | See             | 100           | 30.5                | 11.1     | 5.0                     | 24.0Ω/M' | 18.0Ω/M' | .421                                      | 10.69                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         | 500           | 152.4               | 42.0     | 19.1                    | 78.7Ω/km | 59.1Ω/km |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      | 1000          | 304.8               | 83.0     | 37.7                    |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          | For Plenum version of 9731,<br>see 89731. |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9732</b>                                                                                                                               | NEC:        | 9                            | See             | 100           | 30.5                | 11.9     | 5.4                     | 24.0Ω/M' | 18.0Ω/M' | .488                                      | 12.40                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         | 500           | 152.4               | 58.0     | 26.4                    | 78.7Ω/km | 59.1Ω/km |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      | 1000          | 304.8               | 108.0    | 49.1                    |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          | For Plenum version of 9732,<br>see 89732. |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9733</b>                                                                                                                               | NEC:        | 11                           | See             | 500           | 152.4               | 75.0     | 34.1                    | 24.0Ω/M' | 18.0Ω/M' | .575                                      | 14.61                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         |               |                     | 78.7Ω/km | 59.1Ω/km                |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9734</b>                                                                                                                               | NEC:        | 12                           | See             | 500           | 152.4               | 79.5     | 36.1                    | 24.0Ω/M' | 18.0Ω/M' | .575                                      | 14.61                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         | 1000          | 304.8               | 154.0    | 70.0                    | 78.7Ω/km | 59.1Ω/km |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9735</b>                                                                                                                               | NEC:        | 15                           | See             | 500           | 152.4               | 95.0     | 43.2                    | 24.0Ω/M' | 18.0Ω/M' | .639                                      | 16.23                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         | 1000          | 304.8               | 185.0    | 84.1                    | 78.7Ω/km | 59.1Ω/km |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9736</b>                                                                                                                               | NEC:        | 17                           | See             | 500           | 152.4               | 103.5    | 47.0                    | 24.0Ω/M' | 18.0Ω/M' | .671                                      | 17.04                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         | 1000          | 304.8               | 210.0    | 95.5                    | 78.7Ω/km | 59.1Ω/km |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9737</b>                                                                                                                               | NEC:        | 19                           | See             | 1000          | 304.8               | 231.0    | 105.0                   | 24.0Ω/M' | 18.0Ω/M' | .671                                      | 17.04                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         |               |                     | 78.7Ω/km | 59.1Ω/km                |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| <b>9738</b>                                                                                                                               | NEC:        | 27                           | See             | 1000          | 304.8               | 334.0    | 151.8                   | 24.0Ω/M' | 18.0Ω/M' | .797                                      | 20.24                                              | 100  | 78%                 | 12.5                     | 41.0             | 23.2          | 76.1             |                |
|                                                                                                                                           | CM          |                              | Chart 3         |               |                     | 78.7Ω/km | 59.1Ω/km                |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
|                                                                                                                                           | CEC:        |                              | (Tech Info      |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |
| CM                                                                                                                                        | Section)    |                              |                 |               |                     |          |                         |          |          |                                           |                                                    |      |                     |                          |                  |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

See Attenuation, Rise Time and Bit Rate Data for this series on page 5.34.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

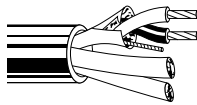
## Individually Shielded

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications  
Plenum-Rated

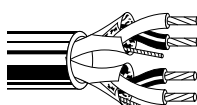
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Nom. DCR |        | Nominal OD |    | Nom. Imp. ( $\Omega$ ) | Nom. Vel. of Prop. | Nom. Capacitance |        |           |         |
|-------------|----------|------------------------------|--------------|------------|------------------|---|----------------------|----|----------|--------|------------|----|------------------------|--------------------|------------------|--------|-----------|---------|
|             |          |                              |              |            | Ft.              | m | Lbs.                 | kg | Cond.    | Shield | Inch       | mm |                        |                    | * pF/Ft.         | * pF/m | ** pF/Ft. | ** pF/m |

**24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 24 AWG Stranded TC Drain Wire**

### Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

|                                                                                  |                       |              |                          |   |                                    |               |                |              |              |                                        |                                        |               |     |     |      |    |      |      |
|----------------------------------------------------------------------------------|-----------------------|--------------|--------------------------|---|------------------------------------|---------------|----------------|--------------|--------------|----------------------------------------|----------------------------------------|---------------|-----|-----|------|----|------|------|
|  | 300V RMS, Non-conduit | <b>89729</b> | NEC: CMP<br>CEC: CMP FT6 | 2 | See Chart 5<br>(Tech Info Section) | 500†<br>1000† | 152.4<br>304.8 | 18.5<br>31.0 | 8.4<br>14.1  | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .261<br>6.63  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
|                                                                                  |                       | <b>89730</b> | NEC: CMP<br>CEC: CMP FT6 | 3 | See Chart 5<br>(Tech Info Section) | 500†<br>1000† | 152.4<br>304.8 | 23.0<br>40.0 | 10.5<br>18.2 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .278<br>7.06  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
|                                                                                  |                       | <b>89728</b> | NEC: CMP<br>CEC: CMP FT6 | 4 | See Chart 5<br>(Tech Info Section) | 500†<br>1000† | 152.4<br>304.8 | 26.5<br>50.0 | 12.0<br>22.7 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .307<br>7.80  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
|                                                                                  |                       | <b>89731</b> | NEC: CMP<br>CEC: CMP FT6 | 6 | See Chart 5<br>(Tech Info Section) | 500†<br>1000† | 152.4<br>304.8 | 35.0<br>71.0 | 15.9<br>32.3 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .361<br>9.17  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
|                                                                                  |                       | <b>89732</b> | NEC: CMP<br>CEC: CMP FT6 | 9 | See Chart 5<br>(Tech Info Section) | 1000†         | 304.8          | 106.0        | 48.2         | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .429<br>10.90 | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |

### Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

|                                                                                    |                       |              |                          |   |                                    |                 |                  |              |              |                                        |                                        |              |     |     |      |    |      |      |
|------------------------------------------------------------------------------------|-----------------------|--------------|--------------------------|---|------------------------------------|-----------------|------------------|--------------|--------------|----------------------------------------|----------------------------------------|--------------|-----|-----|------|----|------|------|
|  | 300V RMS, Non-conduit | <b>82729</b> | NEC: CMP<br>CEC: CMP FT6 | 2 | See Chart 5<br>(Tech Info Section) | U-1000<br>1000† | U-304.8<br>304.8 | 27.0<br>28.0 | 12.3<br>12.7 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .255<br>6.48 | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
|------------------------------------------------------------------------------------|-----------------------|--------------|--------------------------|---|------------------------------------|-----------------|------------------|--------------|--------------|----------------------------------------|----------------------------------------|--------------|-----|-----|------|----|------|------|

DCR = DC Resistance • TC = Tinned Copper

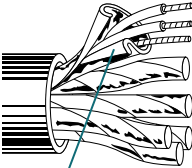
\*Capacitance between conductors.

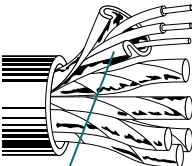
\*\*Capacitance between one conductor and other conductors connected to shield.

†Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

## Individually Shielded

Audio, Control and Instrumentation Cables

| Description                                                                                                                               | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code                            | Standard<br>Lengths |                        | Standard<br>Unit Weight |                       | Nom. DCR             |                      | Nominal<br>OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |               |                  |                |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|-----------------|------------------------------------------|---------------------|------------------------|-------------------------|-----------------------|----------------------|----------------------|---------------|----|---------------------|--------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                           |          |                              |                 |                                          | Ft.                 | m                      | Lbs.                    | kg                    | Cond.                | Shield               | Inch          | mm |                     |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 24 AWG Stranded TC Drain Wire</b> |          |                              |                 |                                          |                     |                        |                         |                       |                      |                      |               |    |                     |                          |                  |               |                  |                |
| <b>Polyethylene Insulation • Chrome PVC Jacket</b>                                                                                        |          |                              |                 |                                          |                     |                        |                         |                       |                      |                      |               |    |                     |                          |                  |               |                  |                |
| <br>Z-Fold®                                              | 9990     | NEC:<br>CM<br>CEC:<br>CM     | 3               | See<br>Chart 3<br>(Tech Info<br>Section) | 500<br>1000         | 152.4<br>304.8         | 18.0<br>36.0            | 8.2<br>16.4           | 24.0Ω/M'<br>78.7Ω/km | 18.0Ω/M'<br>59.1Ω/km | .255<br>6.48  | 60 | 66%                 | 25                       | 82               | 47            | 154              |                |
|                                                                                                                                           | 9991     | NEC:<br>CM<br>CEC:<br>CM     | 6               | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 6.7<br>32.0<br>62.0     | 3.1<br>14.6<br>28.3   | 24.0Ω/M'<br>78.7Ω/km | 18.0Ω/M'<br>59.1Ω/km | .330<br>8.38  | 60 | 66%                 | 25                       | 82               | 47            | 154              |                |
|                                                                                                                                           | 9992     | NEC:<br>CM<br>CEC:<br>CM     | 9               | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 8.8<br>44.0<br>86.0     | 4.0<br>20.0<br>39.1   | 24.0Ω/M'<br>78.7Ω/km | 18.0Ω/M'<br>59.1Ω/km | .383<br>9.73  | 60 | 66%                 | 25                       | 82               | 47            | 154              |                |
|                                                                                                                                           | 9993     | NEC:<br>CM<br>CEC:<br>CM     | 12              | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 11.5<br>107.0<br>48.6   | 5.2<br>52.7<br>103.6  | 24.0Ω/M'<br>78.7Ω/km | 18.0Ω/M'<br>59.1Ω/km | .428<br>10.87 | 60 | 66%                 | 25                       | 82               | 47            | 154              |                |
|                                                                                                                                           | 9995     | NEC:<br>CM<br>CEC:<br>CM     | 25              | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 23.2<br>116.0<br>228.0  | 10.5<br>52.7<br>103.6 | 24.0Ω/M'<br>78.7Ω/km | 18.0Ω/M'<br>59.1Ω/km | .636<br>16.15 | 60 | 66%                 | 25                       | 82               | 47            | 154              |                |

| Description                                                                                                                            | Part No.    | UL NEC/<br>C(UL) CEC<br>Type             | No.<br>of Pairs | Color<br>Code                            | Standard<br>Lengths  |                           | Standard<br>Unit Weight |                      | Insulation<br>Thickness |               | Jacket<br>Thickness |     | Nominal<br>OD |     | Nominal Capacitance |               |                  |                |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-----------------|------------------------------------------|----------------------|---------------------------|-------------------------|----------------------|-------------------------|---------------|---------------------|-----|---------------|-----|---------------------|---------------|------------------|----------------|
|                                                                                                                                        |             |                                          |                 |                                          | Ft.                  | m                         | Lbs.                    | kg                   | Inch                    | mm            | Inch                | mm  | Inch          | mm  | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>22 AWG Solid Conductors • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil • 22 AWG Solid TC Drain Wire</b> |             |                                          |                 |                                          |                      |                           |                         |                      |                         |               |                     |     |               |     |                     |               |                  |                |
| <b>PVC Insulation • Overall Chrome PVC Jacket</b>                                                                                      |             |                                          |                 |                                          |                      |                           |                         |                      |                         |               |                     |     |               |     |                     |               |                  |                |
| <br>Z-Fold®                                         | <b>8767</b> | NEC:<br>MPG, CMG<br>CEC: MPG,<br>CMG FT4 | 3               | See<br>Chart 3<br>(Tech Info<br>Section) | U-500<br>500<br>1000 | U-152.4<br>152.4<br>304.8 | 24.0<br>24.5<br>49.0    | 10.9<br>11.1<br>22.3 | .013<br>.33             | .037<br>.94   | .279<br>7.10        | 40  | 131           | 77  | 253                 |               |                  |                |
|                                                                                                                                        | <b>8768</b> | NEC:<br>MPG, CMG<br>CEC: MPG,<br>CMG FT4 | 6               | See<br>Chart 3<br>(Tech Info<br>Section) | 500<br>1000          | 152.4<br>304.8            | 46.5<br>92.0            | 21.1<br>41.8         | .013<br>.33             | .037<br>.94   | .379<br>9.60        | 40  | 131           | 77  | 253                 |               |                  |                |
|                                                                                                                                        | <b>8764</b> | NEC:<br>MPG, CMG<br>CEC: MPG,<br>CMG FT4 | 9               | See<br>Chart 3<br>(Tech Info<br>Section) | 1000                 | 304.8                     | 122.0<br>55.5           | .013<br>.33          | .040<br>1.02            | .425<br>10.80 | 40                  | 131 | 77            | 253 |                     |               |                  |                |
|                                                                                                                                        | <b>8765</b> | NEC:<br>MPG, CMG<br>CEC: MPG,<br>CMG FT4 | 11              | See<br>Chart 3<br>(Tech Info<br>Section) | 500<br>1000          | 152.4<br>304.8            | 76.5<br>149.0           | 34.8<br>67.7         | .013<br>.33             | .040<br>1.02  | .470<br>11.90       | 40  | 131           | 77  | 253                 |               |                  |                |
|                                                                                                                                        | <b>8766</b> | NEC:<br>MPG, CMG<br>CEC: MPG,<br>CMG FT4 | 15              | See<br>Chart 3<br>(Tech Info<br>Section) | 500<br>1000          | 152.4<br>304.8            | 101.5<br>196.0          | 46.1<br>89.1         | .013<br>.33             | .045<br>1.14  | .525<br>13.30       | 40  | 131           | 77  | 253                 |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

# Individually Shielded

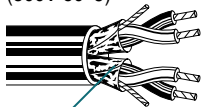
Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG** Stranded (7x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 22 AWG Stranded TC Drain Wire

**Semi-rigid PVC Insulation • Pale Fawn Beige PVC Jacket** (Shielded Pairs Parallel under Jacket)

|                                  |             |                 |   |                   |        |         |      |      |                   |                   |      |      |    |     |    |     |    |     |
|----------------------------------|-------------|-----------------|---|-------------------|--------|---------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
| UL AWM Style 2464<br>(300V 80°C) | <b>9406</b> | NEC:<br>CMG     | 2 | Black &<br>White, | 100    | 30.5    | 4.2  | 1.9  | 15.0 $\Omega$ /M' | 13.0 $\Omega$ /M' | .173 | 4.39 | 50 | 60% | 50 | 164 | 95 | 312 |
|                                  |             | CEC:<br>CMG FT4 |   | Black &<br>Yellow | 500    | 152.4   | 16.5 | 7.5  | 49.2 $\Omega$ /km | 42.7 $\Omega$ /km | x    | x    |    |     |    |     |    |     |
|                                  |             |                 |   |                   | 500    | 152.4   | 17.0 | 7.7  |                   |                   | .280 | 7.11 |    |     |    |     |    |     |
|                                  |             |                 |   |                   | U-1000 | U-304.8 | 33.0 | 15.0 |                   |                   |      |      |    |     |    |     |    |     |
|                                  |             |                 |   |                   | 1000   | 304.8   | 33.0 | 15.0 |                   |                   |      |      |    |     |    |     |    |     |

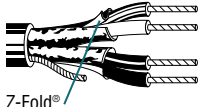


Z-Fold®

**22 AWG** Stranded (7x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 24 AWG Stranded TC Drain Wire

**Polypropylene Insulation • Chrome PVC Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

|               |             |            |   |                  |        |         |       |      |                   |                   |      |      |    |     |    |     |    |     |
|---------------|-------------|------------|---|------------------|--------|---------|-------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
| 300V RMS 60°C | <b>8723</b> | NEC:<br>CM | 2 | Red &<br>Black,  | 100    | 30.5    | 2.3   | 1.0  | 15.0 $\Omega$ /M' | 16.6 $\Omega$ /M' | .168 | 4.27 | 45 | 66% | 35 | 115 | 62 | 203 |
|               |             | CEC:<br>CM |   | Green &<br>White | U-500  | U-152.4 | 10.5  | 4.8  | 49.2 $\Omega$ /km | 54.5 $\Omega$ /km |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | 500    | 152.4   | 10.0  | 4.5  |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | U-1000 | U-304.8 | 20.0  | 9.1  |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | 1000   | 304.8   | 20.0  | 9.1  |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | 1640   | 499.9   | 32.8  | 14.9 |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | U-2000 | U-609.6 | 40.0  | 18.2 |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | 2000   | 609.6   | 40.0  | 18.2 |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | 3280   | 999.7   | 65.6  | 29.8 |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | 5000   | 1524.0  | 95.0  | 43.2 |                   |                   |      |      |    |     |    |     |    |     |
|               |             |            |   |                  | 10000  | 3048.0  | 200.0 | 90.9 |                   |                   |      |      |    |     |    |     |    |     |

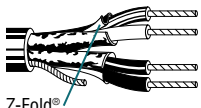


Z-Fold®

For Plenum versions of 8723,  
see 88723, 87723 or 82723.

**Plenum • Halar® Insulation • Natural Flam arrest® Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

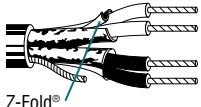
|                       |              |                 |   |                  |         |         |      |      |                   |                   |      |      |    |     |    |     |    |     |
|-----------------------|--------------|-----------------|---|------------------|---------|---------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>82723</b> | NEC:<br>CMP     | 2 | Red &<br>Black,  | U-500†  | U-152.4 | 10.0 | 4.5  | 14.7 $\Omega$ /M' | 16.6 $\Omega$ /M' | .148 | 3.76 | 36 | 62% | 43 | 141 | 75 | 246 |
|                       |              | CEC:<br>CMP FT6 |   | Green &<br>White | U-1000  | U-304.8 | 19.0 | 8.6  | 48.2 $\Omega$ /km | 54.5 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                       |              |                 |   |                  | 1000†   | 304.8   | 20.0 | 9.1  |                   |                   |      |      |    |     |    |     |    |     |
|                       |              |                 |   |                  | U-2000† | U-609.6 | 38.0 | 17.3 |                   |                   |      |      |    |     |    |     |    |     |



Z-Fold®

**Plenum • FEP Insulation • Red FEP Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

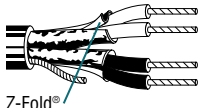
|                       |              |                 |   |                  |      |       |      |     |                   |                   |      |      |    |     |    |     |    |     |
|-----------------------|--------------|-----------------|---|------------------|------|-------|------|-----|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88723</b> | NEC:<br>CMP     | 2 | Red &<br>Black,  | 100  | 30.5  | 3.4  | 1.5 | 16.0 $\Omega$ /M' | 14.7 $\Omega$ /M' | .148 | 3.76 | 40 | 69% | 35 | 115 | 67 | 220 |
|                       |              | CEC:<br>CMP FT6 |   | Green &<br>White | 500  | 152.4 | 11.0 | 5.0 | 52.5 $\Omega$ /km | 48.2 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                       |              |                 |   |                  | 1000 | 304.8 | 21.0 | 9.5 |                   |                   |      |      |    |     |    |     |    |     |



Z-Fold®

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

|                       |              |                 |   |                  |       |       |      |     |                   |                   |      |      |    |     |    |     |    |     |
|-----------------------|--------------|-----------------|---|------------------|-------|-------|------|-----|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>87723</b> | NEC:<br>CMP     | 2 | Red &<br>Black,  | 500†  | 152.4 | 11.0 | 5.0 | 16.0 $\Omega$ /M' | 14.7 $\Omega$ /M' | .148 | 3.76 | 40 | 69% | 35 | 115 | 67 | 220 |
|                       |              | CEC:<br>CMP FT6 |   | Green &<br>White | 1000† | 304.8 | 20.0 | 9.1 | 52.5 $\Omega$ /km | 48.2 $\Omega$ /km |      |      |    |     |    |     |    |     |



Z-Fold®

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  for spools and  $\pm 5\%$  for UnReel from length show.

Halar is an Ausimont Corporation trademark.

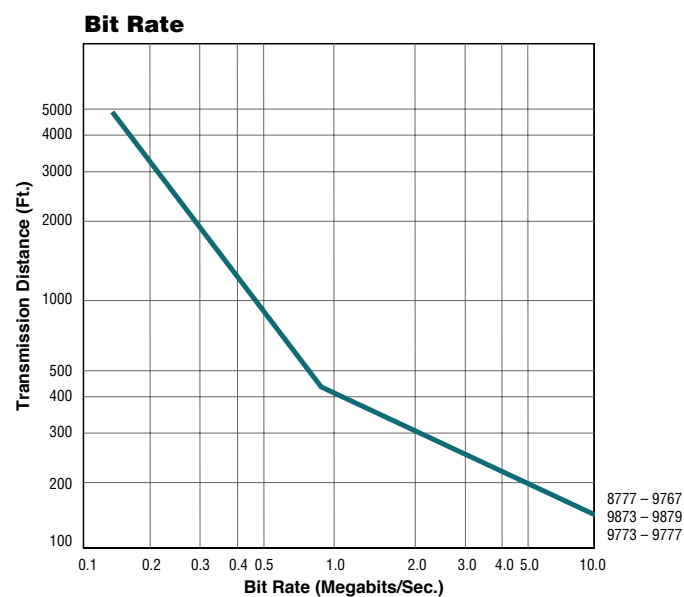
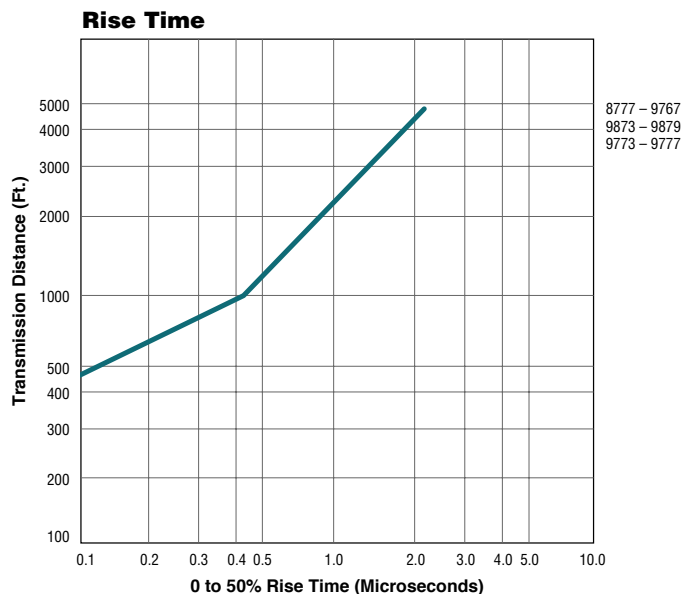
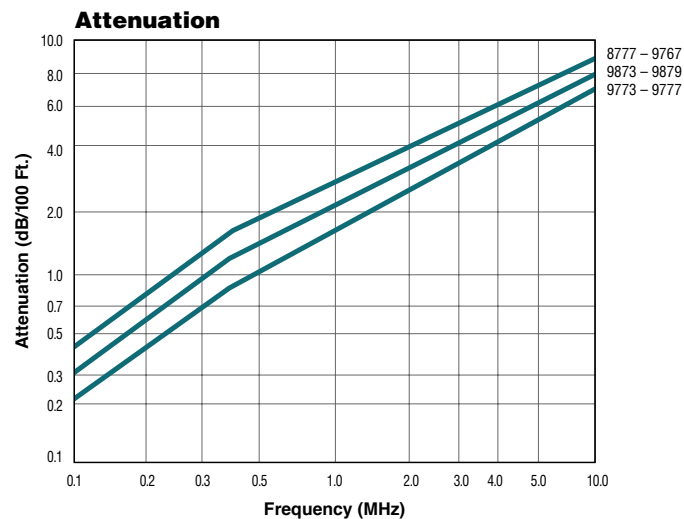


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**1-800-527-0010**

# Individually Shielded Cable Characteristics



Recommended for audio, pulse, and radio frequency applications requiring superior circuit isolation.

**Insulation resistance between shields:**  
100 megohms/M' nom.

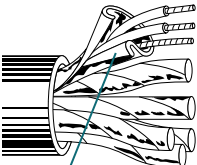
**Capacitance between adjacent shields:**  
115 pF/ft. nom.

**Working voltage between adjacent shields:**  
50 volts max.



## Individually Shielded

Audio, Control and Instrumentation Cables

| Description                                                                                                                        | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No. of<br>Pairs | Color<br>Code | Standard<br>Lengths |         | Standard<br>Unit Weight |       | Nom. DCR |          | Nominal<br>OD |       | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance                                        |               |                  |                |
|------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|-----------------|---------------|---------------------|---------|-------------------------|-------|----------|----------|---------------|-------|---------------------|-----------------------------|---------------------------------------------------------|---------------|------------------|----------------|
|                                                                                                                                    |          |                              |                 |               | Ft.                 | m       | Lbs.                    | kg    | Cond.    | Shield   | Inch          | mm    |                     |                             | *<br>pF/<br>Ft.                                         | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| 22 AWG Stranded (7x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 22 AWG Stranded TC Drain Wire |          |                              |                 |               |                     |         |                         |       |          |          |               |       |                     |                             |                                                         |               |                  |                |
| Polypropylene Insulation • Chrome PVC Jacket                                                                                       |          |                              |                 |               |                     |         |                         |       |          |          |               |       |                     |                             |                                                         |               |                  |                |
| <br>Z-Fold®                                        | 8777     | NEC:                         | 3               | See           | 100                 | 30.5    | 5.3                     | 2.4   | 15.0Ω/M' | 10.6Ω/M' | .273          | 6.93  | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 250                 | 76.2    | 11.3                    | 5.1   | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | U-500               | U-152.4 | 21.0                    | 9.5   |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      | 500                 | 152.4   | 21.0                    | 9.5   |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          |                              |                 |               | U-1000              | U-304.8 | 41.0                    | 18.6  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          |                              |                 |               | 1000                | 304.8   | 42.0                    | 19.1  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          |                              |                 |               | 1640                | 499.9   | 67.2                    | 30.6  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          |                              |                 |               | 3280                | 999.7   | 137.8                   | 62.6  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          |                              |                 |               | 5000                | 1524.0  | 210.0                   | 95.5  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          |                              |                 |               | 10000               | 3048.0  | 450.0                   | 204.5 |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          |                              |                 |               |                     |         |                         |       |          |          |               |       |                     |                             | For Plenum versions of 8777, see 88777, 87777 or 82777. |               |                  |                |
|                                                                                                                                    | 8778     | NEC:                         | 6               | See           | 100                 | 30.5    | 8.4                     | 3.8   | 15.0Ω/M' | 10.6Ω/M' | .362          | 9.19  | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 250                 | 76.2    | 20.8                    | 9.4   | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 500                 | 152.4   | 43.0                    | 19.5  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      | 1000                | 304.8   | 83.0                    | 37.7  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 8774     | NEC:                         | 9               | See           | 100                 | 30.5    | 11.6                    | 5.3   | 15.0Ω/M' | 10.6Ω/M' | .417          | 10.59 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 250                 | 76.2    | 28.8                    | 13.1  | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 500                 | 152.4   | 58.0                    | 26.4  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      | 1000                | 304.8   | 115.0                   | 52.3  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 8775     | NEC:                         | 11              | See           | 100                 | 30.5    | 14.1                    | 6.4   | 15.0Ω/M' | 10.6Ω/M' | .464          | 11.79 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 500                 | 152.4   | 67.0                    | 30.5  | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 1000                | 304.8   | 133.0                   | 60.5  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      |                     |         |                         |       |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 9768     | NEC:                         | 12              | See           | 100                 | 30.5    | 14.9                    | 6.8   | 15.0Ω/M' | 10.6Ω/M' | .464          | 11.79 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 250                 | 76.2    | 35.5                    | 16.1  | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 500                 | 152.4   | 73.5                    | 33.4  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      | 1000                | 304.8   | 143.0                   | 65.0  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 8776     | NEC:                         | 15              | See           | 100                 | 30.5    | 19.7                    | 9.0   | 15.0Ω/M' | 10.6Ω/M' | .548          | 13.92 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 250                 | 76.2    | 49.5                    | 22.5  | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 500                 | 152.4   | 98.0                    | 44.5  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      | 1000                | 304.8   | 197.0                   | 89.5  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 9769     | NEC:                         | 17              | See           | 100                 | 30.5    | 22.0                    | 10.0  | 15.0Ω/M' | 10.6Ω/M' | .577          | 14.66 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 500                 | 152.4   | 109.0                   | 49.5  | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 1000                | 304.8   | 215.0                   | 97.7  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      |                     |         |                         |       |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 8769     | NEC:                         | 19              | See           | 100                 | 30.5    | 25.0                    | 11.4  | 15.0Ω/M' | 10.6Ω/M' | .603          | 15.32 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 500                 | 152.4   | 123.5                   | 56.1  | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 1000                | 304.8   | 245.0                   | 111.4 |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      |                     |         |                         |       |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 8773     | NEC:                         | 27              | See           | 100                 | 30.5    | 33.8                    | 15.4  | 15.0Ω/M' | 10.6Ω/M' | .709          | 18.00 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 250†                | 76.2    | 85.0                    | 38.6  | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 500†                | 152.4   | 166.0                   | 75.5  |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      | 1000†               | 304.8   | 346.0                   | 157.3 |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    | 9767     | NEC:                         | 37              | See           | 500†                | 152.4   | 224.0                   | 101.8 | 15.0Ω/M' | 10.6Ω/M' | .800          | 20.32 | 50                  | 66%                         | 30                                                      | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 1000†               | 304.8   | 481.0                   | 218.6 | 49.2Ω/km | 34.8Ω/km |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    |                     |         |                         |       |          |          |               |       |                     |                             |                                                         |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      |                     |         |                         |       |          |          |               |       |                     |                             |                                                         |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

†Spools are one piece, but length may vary -0 to +20% from length shown.

See Attenuation, Rise Time and Bit Rate Data for this series on page 5.39.



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**1-800-527-0010**

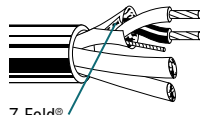
## Individually Shielded

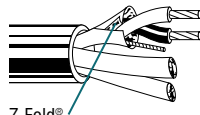
Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

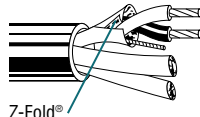
**22 AWG Stranded (7x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 22 AWG Stranded TC Drain Wire**

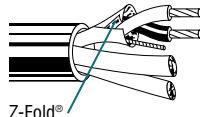
### Plenum • Halar® Insulation • Natural Flamarrest® Jacket

|                                                                                   |              |         |   |                                          |        |         |      |      |                   |                   |      |      |    |     |    |     |    |     |
|-----------------------------------------------------------------------------------|--------------|---------|---|------------------------------------------|--------|---------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
|  | <b>82777</b> | NEC:    | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | U-500† | U-152.4 | 19.0 | 8.6  | 14.7 $\Omega$ /M' | 11.3 $\Omega$ /M' | .234 | 5.94 | 46 | 62% | 35 | 115 | 76 | 249 |
|                                                                                   |              | CMP     |   |                                          | U-1000 | U-304.8 | 38.0 | 17.3 | 48.2 $\Omega$ /km | 37.1 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                                                                                   |              | CEC:    |   |                                          | 1000†  | 304.8   | 39.0 | 17.7 |                   |                   |      |      |    |     |    |     |    |     |
|                                                                                   |              | CMP FT6 |   |                                          |        |         |      |      |                   |                   |      |      |    |     |    |     |    |     |

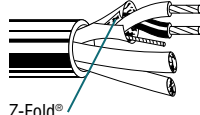
|                                                                                   |              |         |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|-----------------------------------------------------------------------------------|--------------|---------|---|------------------------------------------|-------|-------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
|  | <b>82778</b> | NEC:    | 6 | See<br>Chart 3<br>(Tech Info<br>Section) | 1000† | 304.8 | 67.0 | 30.5 | 14.7 $\Omega$ /M' | 11.3 $\Omega$ /M' | .330 | 8.38 | 46 | 62% | 35 | 115 | 76 | 249 |
|                                                                                   |              | CMP     |   |                                          |       |       |      |      | 48.2 $\Omega$ /km | 37.1 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                                                                                   |              | CEC:    |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|                                                                                   |              | CMP FT6 |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |

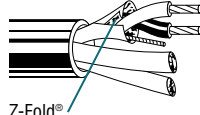
### Plenum • FEP Insulation • Red FEP Jacket

|                                                                                   |              |         |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|-----------------------------------------------------------------------------------|--------------|---------|---|------------------------------------------|-------|-------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
|  | <b>88777</b> | NEC:    | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | 100   | 30.5  | 6.0  | 2.7  | 14.7 $\Omega$ /M' | 11.3 $\Omega$ /M' | .234 | 5.94 | 50 | 69% | 31 | 102 | 67 | 220 |
|                                                                                   |              | CMP     |   |                                          | 500†  | 152.4 | 21.0 | 9.5  | 48.2 $\Omega$ /km | 37.1 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                                                                                   |              | CEC:    |   |                                          | 1000† | 304.8 | 42.0 | 19.1 |                   |                   |      |      |    |     |    |     |    |     |
|                                                                                   |              | CMP FT6 |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |

|                                                                                   |              |         |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|-----------------------------------------------------------------------------------|--------------|---------|---|------------------------------------------|-------|-------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
|  | <b>88778</b> | NEC:    | 6 | See<br>Chart 3<br>(Tech Info<br>Section) | 100   | 30.5  | 8.8  | 4.0  | 14.7 $\Omega$ /M' | 11.3 $\Omega$ /M' | .309 | 7.85 | 50 | 69% | 31 | 102 | 67 | 220 |
|                                                                                   |              | CMP     |   |                                          | 500†  | 152.4 | 40.0 | 18.2 | 48.2 $\Omega$ /km | 37.1 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                                                                                   |              | CEC:    |   |                                          | 1000† | 304.8 | 75.0 | 34.1 |                   |                   |      |      |    |     |    |     |    |     |
|                                                                                   |              | CMP FT6 |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |

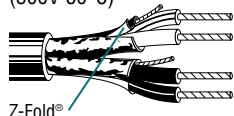
### Plenum • FEP Insulation • Red Fluorocopolymer Jacket

|                                                                                    |              |         |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|------------------------------------------------------------------------------------|--------------|---------|---|------------------------------------------|-------|-------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
|  | <b>87777</b> | NEC:    | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | 500†  | 152.4 | 20.0 | 9.1  | 14.7 $\Omega$ /M' | 11.3 $\Omega$ /M' | .234 | 5.94 | 50 | 69% | 31 | 102 | 67 | 220 |
|                                                                                    |              | CMP     |   |                                          | 1000† | 304.8 | 40.0 | 18.2 | 48.2 $\Omega$ /km | 37.1 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                                                                                    |              | CEC:    |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|                                                                                    |              | CMP FT6 |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |

|                                                                                    |              |         |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|------------------------------------------------------------------------------------|--------------|---------|---|------------------------------------------|-------|-------|------|------|-------------------|-------------------|------|------|----|-----|----|-----|----|-----|
|  | <b>87778</b> | NEC:    | 6 | See<br>Chart 3<br>(Tech Info<br>Section) | 500†  | 152.4 | 37.5 | 17.0 | 14.7 $\Omega$ /M' | 11.3 $\Omega$ /M' | .309 | 7.85 | 50 | 69% | 31 | 102 | 67 | 220 |
|                                                                                    |              | CMP     |   |                                          | 1000† | 304.8 | 73.0 | 33.2 | 48.2 $\Omega$ /km | 37.1 $\Omega$ /km |      |      |    |     |    |     |    |     |
|                                                                                    |              | CEC:    |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |
|                                                                                    |              | CMP FT6 |   |                                          |       |       |      |      |                   |                   |      |      |    |     |    |     |    |     |

**20 AWG Stranded (7x28) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 22 AWG Stranded TC Drain Wire**

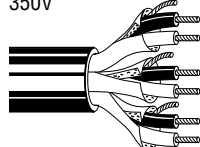
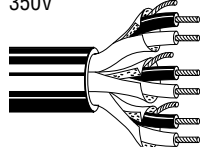
### Semi-rigid PVC Insulation • Overall Chrome PVC Jacket

|                                                                                     |             |         |   |                                     |       |         |      |      |   |   |      |      |   |   |    |     |    |     |
|-------------------------------------------------------------------------------------|-------------|---------|---|-------------------------------------|-------|---------|------|------|---|---|------|------|---|---|----|-----|----|-----|
|  | <b>9402</b> | NEC:    | 2 | Red &<br>Black,<br>Green &<br>White | U-500 | U-152.4 | 27.0 | 12.3 | — | — | .300 | 7.62 | — | — | 55 | 180 | 95 | 312 |
|                                                                                     |             | CMG     |   |                                     | 1000  | 304.8   | 53.0 | 24.1 |   |   |      |      |   |   |    |     |    |     |
|                                                                                     |             | CEC:    |   |                                     |       |         |      |      |   |   |      |      |   |   |    |     |    |     |
|                                                                                     |             | CMG FT4 |   |                                     |       |         |      |      |   |   |      |      |   |   |    |     |    |     |

Insulation Thickness  
.010 .25  
Jacket Thickness  
.041 1.04

**20 AWG Stranded (10x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 22 AWG Stranded TC Drain Wire**

### Polypropylene Insulation • Black High-density Polyethylene Jacket

|                                                                                     |             |                       |   |                                          |      |       |       |      |                   |                   |      |       |    |     |    |    |    |     |
|-------------------------------------------------------------------------------------|-------------|-----------------------|---|------------------------------------------|------|-------|-------|------|-------------------|-------------------|------|-------|----|-----|----|----|----|-----|
|  | <b>9883</b> | Direct Burial<br>350V | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | 500  | 152.4 | 28.0  | 12.8 | 6.4 $\Omega$ /M'  | 8.3 $\Omega$ /M'  | .340 | 8.64  | 50 | 66% | 30 | 98 | 55 | 180 |
|                                                                                     |             |                       |   |                                          | 1000 | 304.8 | 56.0  | 25.5 | 21.0 $\Omega$ /km | 27.2 $\Omega$ /km |      |       |    |     |    |    |    |     |
|                                                                                     |             |                       |   |                                          |      |       |       |      |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                     |             |                       |   |                                          |      |       |       |      |                   |                   |      |       |    |     |    |    |    |     |
|  | <b>9886</b> |                       | 6 | See<br>Chart 3<br>(Tech Info<br>Section) | 500  | 152.4 | 56.5  | 25.8 | 6.4 $\Omega$ /M'  | 8.3 $\Omega$ /M'  | .455 | 11.56 | 50 | 66% | 30 | 98 | 55 | 180 |
|                                                                                     |             |                       |   |                                          | 1000 | 304.8 | 109.0 | 49.7 | 21.0 $\Omega$ /km | 27.2 $\Omega$ /km |      |       |    |     |    |    |    |     |
|                                                                                     |             |                       |   |                                          |      |       |       |      |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                     |             |                       |   |                                          |      |       |       |      |                   |                   |      |       |    |     |    |    |    |     |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

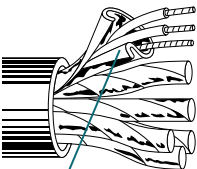
\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  for spools and  $\pm 5\%$  for UnReel from length show.

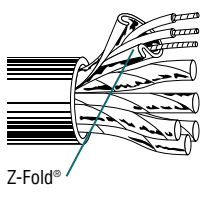
Halar is an Ausimont Corporation trademark.

## Individually Shielded

Audio, Control and Instrumentation Cables

| Description                                                                                                                        | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard<br>Lengths |       | Standard<br>Unit Weight |          | Nom. DCR |          | Nominal<br>OD |       | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |               |                  |                |
|------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|-----------------|---------------|---------------------|-------|-------------------------|----------|----------|----------|---------------|-------|---------------------|--------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                    |          |                              |                 |               | Ft.                 | m     | Lbs.                    | kg       | Cond.    | Shield   | Inch          | mm    |                     |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| 20 AWG Stranded (7x28) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 22 AWG Stranded TC Drain Wire |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
| Polyethylene Insulation • Overall Chrome PVC Jacket                                                                                |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
| <br>Z-Fold®                                        | 9873     | NEC:                         | 3               | See           | 100                 | 30.5  | 7.0                     | 3.2      | 10.5Ω/M' | 14.0Ω/M' | .341          | 8.66  | 50                  | 66%                      | 30               | 98            | 55               | 180            |
|                                                                                                                                    |          | CM                           |                 | Chart 3       | 250                 | 76.2  | 17.3                    | 7.8      | 34.4Ω/km | 45.9Ω/km |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          | CEC:                         |                 | (Tech Info    | 500                 | 152.4 | 33.5                    | 15.2     |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          | CM                           |                 | Section)      | 1000                | 304.8 | 66.0                    | 30.0     |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    | 9874     | NEC:                         | 6               | See           | 100                 | 30.5  | 13.1                    | 6.0      | 10.5Ω/M' | 11.3Ω/M' | .445          | 11.30 | 50                  | 66%                      | 30               | 98            | 55               | 180            |
| CM                                                                                                                                 |          | Chart 3                      |                 | 250           | 76.2                | 31.0  | 14.1                    | 34.4Ω/km | 37.1Ω/km |          |               |       |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                               |          | (Tech Info                   |                 | 500           | 152.4               | 62.5  | 28.4                    |          |          |          |               |       |                     |                          |                  |               |                  |                |
| CM                                                                                                                                 |          | Section)                     |                 | 1000          | 304.8               | 125.0 | 56.8                    |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    | 9875     | NEC:                         | 9               | See           | 100                 | 30.5  | 19.7                    | 9.0      | 10.5Ω/M' | 11.3Ω/M' | .555          | 14.10 | 50                  | 66%                      | 30               | 98            | 55               | 180            |
| CM                                                                                                                                 |          | Chart 3                      |                 | 500           | 152.4               | 97.5  | 44.3                    | 34.4Ω/km | 37.1Ω/km |          |               |       |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                               |          | (Tech Info                   |                 | 1000          | 304.8               | 188.0 | 85.5                    |          |          |          |               |       |                     |                          |                  |               |                  |                |
| CM                                                                                                                                 |          | Section)                     |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    | 9876     | NEC:                         | 11              | See           | 1000                | 304.8 | 220.0                   | 100.0    | 10.5Ω/M' | 11.3Ω/M' | .600          | 15.24 | 50                  | 66%                      | 30               | 98            | 55               | 180            |
| CM                                                                                                                                 |          | Chart 3                      |                 |               |                     |       |                         | 34.4Ω/km | 37.1Ω/km |          |               |       |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                               |          | (Tech Info                   |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
| CM                                                                                                                                 |          | Section)                     |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    | 9877     | NEC:                         | 12              | See           | 100                 | 30.5  | 24.1                    | 11.0     | 10.5Ω/M' | 11.3Ω/M' | .617          | 15.67 | 50                  | 66%                      | 30               | 98            | 55               | 180            |
| CM                                                                                                                                 |          | Chart 3                      |                 | 500           | 152.4               | 119.0 | 54.1                    | 34.4Ω/km | 37.1Ω/km |          |               |       |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                               |          | (Tech Info                   |                 | 1000          | 304.8               | 237.0 | 107.7                   |          |          |          |               |       |                     |                          |                  |               |                  |                |
| CM                                                                                                                                 |          | Section)                     |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    | 9879     | NEC:                         | 15              | See           | 500                 | 152.4 | 146.0                   | 66.4     | 10.5Ω/M' | 11.3Ω/M' | .689          | 17.50 | 50                  | 66%                      | 30               | 98            | 55               | 180            |
| CM                                                                                                                                 |          | Chart 3                      |                 | 1000          | 304.8               | 296.0 | 134.5                   | 34.4Ω/km | 37.1Ω/km |          |               |       |                     |                          |                  |               |                  |                |
| CEC:                                                                                                                               |          | (Tech Info                   |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
| CM                                                                                                                                 |          | Section)                     |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |
|                                                                                                                                    |          |                              |                 |               |                     |       |                         |          |          |          |               |       |                     |                          |                  |               |                  |                |

**18 AWG Stranded (19x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 20 AWG Stranded TC Drain Wire**

|                                                                                                                               |             |      |    |            |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|------|----|------------|------|-------|-------|-------|-------------------|-------------------|------|-------|----|-----|----|----|----|-----|
| <b>Polyethylene Insulation • Chrome PVC Jacket</b>                                                                            |             |      |    |            |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
| UL AWM Style 2919<br>(30V 80°C)<br> Z-Fold® | <b>9773</b> | NEC: | 3  | See        | 100  | 30.5  | 9.4   | 4.3   | 6.4 $\Omega$ /M'  | 8.3 $\Omega$ /M'  | .404 | 10.26 | 50 | 66% | 30 | 98 | 55 | 180 |
|                                                                                                                               |             | CM   |    | Chart 3    | 500  | 152.4 | 45.5  | 20.7  | 21.0 $\Omega$ /km | 27.2 $\Omega$ /km |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CEC: |    | (Tech Info | 1000 | 304.8 | 93.0  | 42.3  |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CM   |    | Section)   |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             |      |    |            |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               | <b>9774</b> | NEC: | 6  | See        | 100  | 30.5  | 19.4  | 8.8   | 6.4 $\Omega$ /M'  | 8.3 $\Omega$ /M'  | .560 | 14.22 | 50 | 66% | 30 | 98 | 55 | 180 |
|                                                                                                                               |             | CM   |    | Chart 3    | 500  | 152.4 | 95.5  | 43.4  | 21.0 $\Omega$ /km | 27.2 $\Omega$ /km |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CEC: |    | (Tech Info | 1000 | 304.8 | 189.0 | 85.9  |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CM   |    | Section)   |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             |      |    |            |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               | <b>9775</b> | NEC: | 9  | See        | 100  | 30.5  | 26.6  | 12.1  | 6.4 $\Omega$ /M'  | 8.3 $\Omega$ /M'  | .655 | 16.64 | 50 | 66% | 30 | 98 | 55 | 180 |
|                                                                                                                               |             | CM   |    | Chart 3    | 500  | 152.4 | 132.0 | 60.0  | 21.0 $\Omega$ /km | 27.2 $\Omega$ /km |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CEC: |    | (Tech Info | 1000 | 304.8 | 260.0 | 118.2 |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CM   |    | Section)   |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             |      |    |            |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               | <b>9776</b> | NEC: | 12 | See        | 100  | 30.5  | 32.6  | 14.8  | 6.4 $\Omega$ /M'  | 8.3 $\Omega$ /M'  | .735 | 18.67 | 50 | 66% | 30 | 98 | 55 | 180 |
|                                                                                                                               |             | CM   |    | Chart 3    | 500  | 152.4 | 171.5 | 78.0  | 21.0 $\Omega$ /km | 27.2 $\Omega$ /km |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CEC: |    | (Tech Info | 1000 | 304.8 | 328.0 | 149.1 |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CM   |    | Section)   |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             |      |    |            |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               | <b>9777</b> | NEC: | 15 | See        | 100  | 30.5  | 43.5  | 19.8  | 6.4 $\Omega$ /M'  | 8.3 $\Omega$ /M'  | .819 | 20.8  | 50 | 66% | 30 | 98 | 55 | 180 |
|                                                                                                                               |             | CM   |    | Chart 3    | 500  | 152.4 | 209.0 | 95.0  | 21.0 $\Omega$ /km | 27.2 $\Omega$ /km |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CEC: |    | (Tech Info | 1000 | 304.8 | 451.0 | 205.0 |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             | CM   |    | Section)   |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |
|                                                                                                                               |             |      |    |            |      |       |       |       |                   |                   |      |       |    |     |    |    |    |     |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.39.



By:



INTERSTATE WIRE

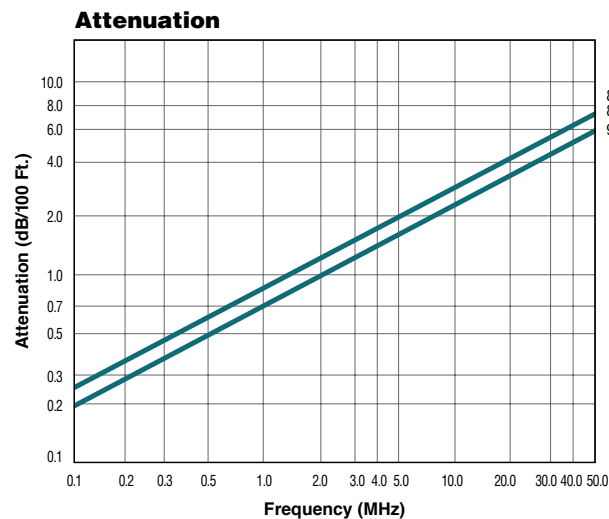
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

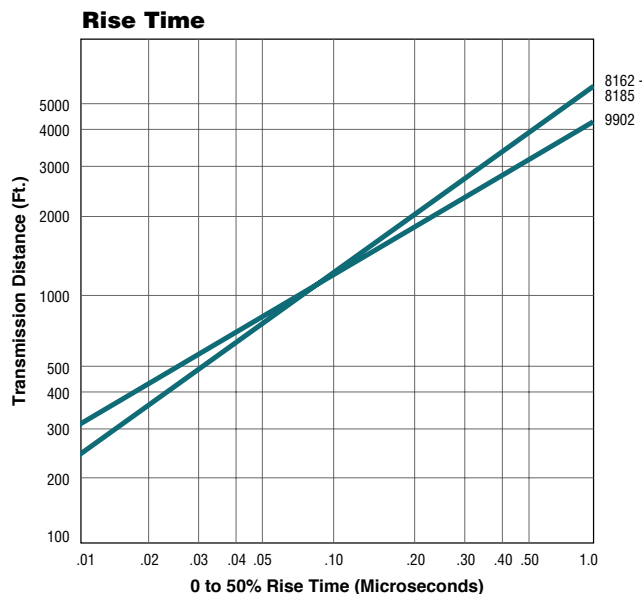
1-800-527-0010

# Individually Shielded Pairs with Overall Foil/Braid Shield

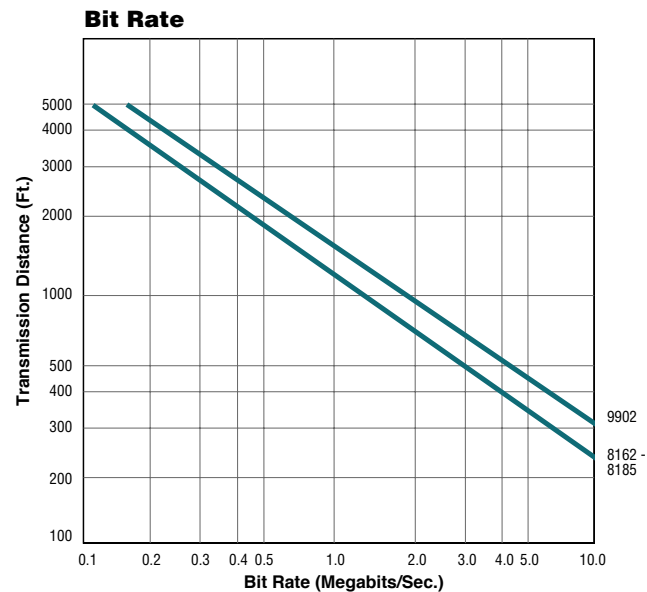
## Cable Characteristics



Note: 9902 on page 11.18 in Networking Section



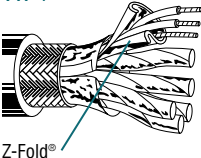
Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.



Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

## Individually Shielded Pairs with Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422 and Digital Audio Applications

| Description                                                                                                                                    | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No. of<br>Pairs | Color<br>Code                            | Standard<br>Lengths |       | Standard<br>Unit Weight |      | Nom. DCR |             | Nominal<br>OD |       | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|-----------------|------------------------------------------|---------------------|-------|-------------------------|------|----------|-------------|---------------|-------|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                                |             |                              |                 |                                          | Ft.                 | m     | Lbs.                    | kg   | Cond.    | Shield      | Inch          | mm    |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded (7x32) • TC • Twisted Pairs Individually Beldfoil® Shielded + Overall 100% Beldfoil + 65% TC Braid Shield • Drain Wire▲</b> |             |                              |                 |                                          |                     |       |                         |      |          |             |               |       |                     |                             |                  |               |                  |                |
| <b>Datalene® Insulation • Chrome PVC Jacket</b>                                                                                                |             |                              |                 |                                          |                     |       |                         |      |          |             |               |       |                     |                             |                  |               |                  |                |
| UL AWM Style 2493<br>(60°C)<br>VW-1<br><br>Z-Fold®             | <b>8162</b> | NEC:                         | 2               | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 6.2                     | 2.8  | 24.0Ω/M' | Individual: | .343          | 8.71  | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                |             | CM                           |                 |                                          | 500                 | 152.4 | 30.0                    | 13.6 | 78.7Ω/km | 18.0Ω/M'    |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CEC:                         |                 |                                          | 1000                | 304.8 | 57.0                    | 25.9 | 59.1Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CM                           |                 |                                          |                     |       |                         |      | Overall: |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 4.3Ω/M'  |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 14.1Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                | <b>8163</b> | NEC:                         | 3               | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 7.0                     | 3.2  | 24.0Ω/M' | Individual: | .359          | 9.12  | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                |             | CM                           |                 |                                          | 500                 | 152.4 | 34.0                    | 15.5 | 78.7Ω/km | 18.0Ω/M'    |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CEC:                         |                 |                                          | 1000                | 304.8 | 66.0                    | 30.0 | 59.1Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CM                           |                 |                                          |                     |       |                         |      | Overall: |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 4.4Ω/M'  |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 14.4Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                | <b>8164</b> | NEC:                         | 4               | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 8.2                     | 3.7  | 24.0Ω/M' | Individual: | .388          | 9.86  | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                |             | CM                           |                 |                                          | 500                 | 152.4 | 39.5                    | 18.0 | 78.7Ω/km | 18.0Ω/M'    |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CEC:                         |                 |                                          | 1000                | 304.8 | 79.0                    | 35.9 | 59.1Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CM                           |                 |                                          |                     |       |                         |      | Overall: |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 3.2Ω/M'  |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 10.5Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                | <b>8165</b> | NEC:                         | 5               | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 9.0                     | 4.1  | 24.0Ω/M' | Individual: | .413          | 10.49 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                |             | CM                           |                 |                                          | 500                 | 152.4 | 45.0                    | 20.5 | 78.7Ω/km | 18.0Ω/M'    |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CEC:                         |                 |                                          | 1000                | 304.8 | 89.0                    | 40.5 | 59.1Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CM                           |                 |                                          |                     |       |                         |      | Overall: |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 3.4Ω/M'  |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 11.2Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                | <b>8166</b> | NEC:                         | 6               | See<br>Chart 3<br>(Tech Info<br>Section) | 100                 | 30.5  | 12.7                    | 5.8  | 24.0Ω/M' | Individual: | .446          | 11.33 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                |             | CM                           |                 |                                          | 500                 | 152.4 | 50.0                    | 22.7 | 78.7Ω/km | 18.0Ω/M'    |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CEC:                         |                 |                                          | 1000                | 304.8 | 99.0                    | 45.0 | 59.1Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CM                           |                 |                                          |                     |       |                         |      | Overall: |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 2.8Ω/M'  |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 9.2Ω/km  |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                | <b>8167</b> | NEC:                         | 7               | See<br>Chart 3<br>(Tech Info<br>Section) | 500                 | 152.4 | 52.5                    | 23.9 | 24.0Ω/M' | Individual: | .446          | 11.33 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                |             | CM                           |                 |                                          | 1000                | 304.8 | 104.0                   | 47.3 | 78.7Ω/km | 18.0Ω/M'    |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CEC:                         |                 |                                          |                     |       |                         |      | 59.1Ω/km |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             | CM                           |                 |                                          |                     |       |                         |      | Overall: |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 2.8Ω/M'  |             |               |       |                     |                             |                  |               |                  |                |
|                                                                                                                                                |             |                              |                 |                                          |                     |       |                         |      | 9.2Ω/km  |             |               |       |                     |                             |                  |               |                  |                |

▲24 AWG stranded TC drain wire

▲24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.



By:



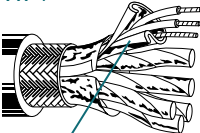
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1-800-527-0010

# Individually Shielded Pairs with Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422 and Digital Audio Applications

| Description                                                                                                                                                      | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | No. of<br>Pairs | Color<br>Code                            | Standard<br>Lengths |                        | Standard<br>Unit Weight |                       | Nom. DCR             |                                                                       | Nominal<br>OD |       | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|-----------------|------------------------------------------|---------------------|------------------------|-------------------------|-----------------------|----------------------|-----------------------------------------------------------------------|---------------|-------|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                                                  |             |                              |                 |                                          | Ft.                 | m                      | Lbs.                    | kg                    | Cond.                | Shield                                                                | Inch          | mm    |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>24 AWG Stranded (7x32) • TC • Twisted Pairs Individually Beldfoil® Shielded + Overall 100% Beldfoil + 65% TC Braid Shield • Drain Wire▲</b>                   |             |                              |                 |                                          |                     |                        |                         |                       |                      |                                                                       |               |       |                     |                             |                  |               |                  |                |
| <b>Datalene® Insulation • Chrome PVC Jacket</b>                                                                                                                  |             |                              |                 |                                          |                     |                        |                         |                       |                      |                                                                       |               |       |                     |                             |                  |               |                  |                |
| <div>UL AWM Style 2493<br/>(60°C)<br/>VW-1</div> <div></div> <div>Z-Fold®</div> | <b>8168</b> | NEC:<br>CM<br>CEC:<br>CM     | 8               | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 12.5<br>61.5<br>115.0   | 5.7<br>28.0<br>52.3   | 24.0Ω/M'<br>78.7Ω/km | Individual:<br>18.0Ω/M'<br>59.1Ω/km<br>Overall:<br>3.0Ω/M'<br>9.8Ω/km | .479          | 12.17 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                                  | <b>8170</b> | NEC:<br>CM<br>CEC:<br>CM     | 10              | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 19.7<br>83.0<br>164.0   | 9.0<br>37.7<br>74.5   | 24.0Ω/M'<br>78.7Ω/km | Individual:<br>18.0Ω/M'<br>59.1Ω/km<br>Overall:<br>2.7Ω/M'<br>8.9Ω/km | .584          | 14.83 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                                  | <b>8175</b> | NEC:<br>CM<br>CEC:<br>CM     | 15              | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 24.3<br>107.5<br>210.0  | 11.0<br>48.9<br>95.5  | 24.0Ω/M'<br>78.7Ω/km | Individual:<br>18.0Ω/M'<br>59.1Ω/km<br>Overall:<br>2.5Ω/M'<br>8.2Ω/km | .665          | 16.89 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                                  | <b>8178</b> | NEC:<br>CM<br>CEC:<br>CM     | 18              | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 26.3<br>117.0<br>238.0  | 12.0<br>53.2<br>108.2 | 24.0Ω/M'<br>78.7Ω/km | Individual:<br>18.0Ω/M'<br>59.1Ω/km<br>Overall:<br>2.6Ω/M'<br>8.5Ω/km | .686          | 17.42 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
|                                                                                                                                                                  | <b>8185</b> | NEC:<br>CM<br>CEC:<br>CM     | 25              | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000  | 30.5<br>152.4<br>304.8 | 34.0<br>160.5<br>356.0  | 15.5<br>73.0<br>161.8 | 24.0Ω/M'<br>78.7Ω/km | Individual:<br>18.0Ω/M'<br>59.1Ω/km<br>Overall:<br>2.4Ω/M'<br>7.9Ω/km | .822          | 20.88 | 100                 | 78%                         | 12.5             | 41            | 22               | 72.2           |
| ▲24 AWG stranded TC drain wire                                                                                                                                   |             |                              |                 |                                          |                     |                        |                         |                       |                      |                                                                       |               |       |                     |                             |                  |               |                  |                |

\*24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

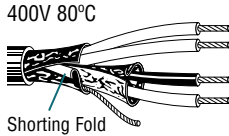
## Combination Shields

Special Audio, Communication and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**25 AWG** Stranded Conductors (7x33) • Tinned Copper • Overall 100% Beldfoil® Shield Coverage • 25 AWG Stranded TC Drain Wire

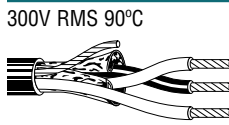
**Polyethylene Insulation • Chrome PVC Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

|                                                                                                       |             |  |   |                          |                    |         |       |      |      |     |      |     |      |      |    |    |    |     |
|-------------------------------------------------------------------------------------------------------|-------------|--|---|--------------------------|--------------------|---------|-------|------|------|-----|------|-----|------|------|----|----|----|-----|
|  <p>Shorting Fold</p> | <b>8434</b> |  | 2 | Shielded:<br>Red & Black | 100                | 30.5    | 2.1   | 1.0  | .013 | .33 | .020 | .51 | .165 | 4.19 | 25 | 82 | 40 | 131 |
|                                                                                                       |             |  |   |                          | 500                | 152.4   | 7.0   | 3.2  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                       |             |  |   |                          | Unshielded: U-1000 | U-304.8 | 13.0  | 5.9  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                       |             |  |   |                          | Green & White      | 1000    | 304.8 | 14.0 | 6.4  |     |      |     |      |      |    |    |    |     |

Red/Black pair 100% Beldfoil shielded with drain wire.  
3 copper, 4 copper-covered steel strands in each conductor.

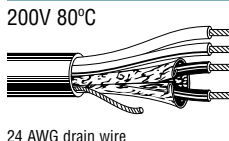
**22 AWG** Stranded Conductors (7x30) • Tinned Copper • One Pair 100% Beldfoil Shielded • Stranded Tinned Copper Drain Wire

**PVC Insulation • Chrome PVC Jacket** (Pair and Single Cabled)

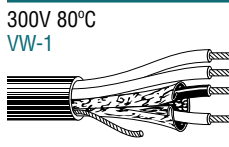
|                                                                                  |             |            |                               |                            |                      |         |      |      |      |     |      |     |      |      |    |     |    |     |
|----------------------------------------------------------------------------------|-------------|------------|-------------------------------|----------------------------|----------------------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
|  | <b>9685</b> | NEC:<br>CM | 1.5<br>(1 pair +<br>1 single) | Shielded:<br>Black & White | U-1000               | U-304.8 | 24.0 | 10.9 | .013 | .33 | .032 | .81 | .199 | 5.05 | 60 | 197 | 99 | 325 |
|                                                                                  |             |            |                               |                            | Unshielded:<br>Brown |         |      |      |      |     |      |     |      |      |    |     |    |     |

Meets NEC Article 800  
22 AWG drain wire

**Polypropylene Insulation • Chrome PVC Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

|                                                                                   |              |  |   |                          |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------------------------------------------------------------------|--------------|--|---|--------------------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
|  | <b>8730†</b> |  | 2 | Shielded:<br>Red & Black | U-1000 | U-304.8 | 25.0 | 11.4 | .008 | .20 | .030 | .76 | .205 | 5.21 | 34 | 111 | 67 | 220 |
|                                                                                   |              |  |   |                          | 1000   | 304.8   | 25.0 | 11.4 |      |     |      |     |      |      |    |     |    |     |

24 AWG drain wire

|                                                                                    |              |                          |   |                          |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|------------------------------------------------------------------------------------|--------------|--------------------------|---|--------------------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
|  | <b>8724†</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | Shielded:<br>Red & Black | U-1000 | U-304.8 | 21.0 | 9.5 | .008 | .20 | .019 | .48 | .165 | 4.19 | 34 | 112 | 67 | 220 |
|                                                                                    |              |                          |   |                          | 1000   | 304.8   | 21.0 | 9.5 |      |     |      |     |      |      |    |     |    |     |

24 AWG drain wire

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • Cabled in Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wires

**Polypropylene Insulation • Chrome PVC Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

|                                                                                    |             |                          |   |             |               |         |         |      |      |     |      |     |      |      |    |     |    |     |
|------------------------------------------------------------------------------------|-------------|--------------------------|---|-------------|---------------|---------|---------|------|------|-----|------|-----|------|------|----|-----|----|-----|
|  | <b>8728</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | Black & Red | U-500         | U-152.4 | 15.0    | 6.8  | .010 | .25 | .028 | .71 | .215 | 5.46 | 35 | 115 | 62 | 203 |
|                                                                                    |             |                          |   |             | 500           | 152.4   | 15.5    | 7.0  |      |     |      |     |      |      |    |     |    |     |
|                                                                                    |             |                          |   |             | Green & White | U-1000  | U-304.8 | 30.0 | 13.6 |     |      |     |      |      |    |     |    |     |
|                                                                                    |             |                          |   |             | 1000          | 304.8   | 30.0    | 13.6 |      |     |      |     |      |      |    |     |    |     |

Meets NEC Article 800  
Each pair Beldfoil shielded with individual drain wire plus polyester film over each shield.

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.



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**1-800-527-0010**

## Combination Shields

Special Audio, Communication and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**20 AWG Stranded (7x28) • Tinned Copper • Conductors Cabled • 100% Beldfoil® Shield as noted • 20 or 22 AWG Stranded TC Drain Wire**

### Polyethylene Insulation • Chrome PVC Jacket

|           |             |  |                               |                                                         |      |       |      |      |      |     |      |     |      |      |    |    |    |     |
|-----------|-------------|--|-------------------------------|---------------------------------------------------------|------|-------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| 350V 80°C | <b>8763</b> |  | 1.5<br>(1 pair +<br>1 single) | Shielded:<br>Black &<br>Red<br><br>Unshielded:<br>Clear | 1000 | 304.8 | 27.0 | 12.3 | .014 | .36 | .028 | .71 | .210 | 5.33 | 26 | 85 | 48 | 157 |
|-----------|-------------|--|-------------------------------|---------------------------------------------------------|------|-------|------|------|------|-----|------|-----|------|------|----|----|----|-----|



Z-Fold®

Beldfoil shield over Red and Black pair only. Clear conductor is unshielded. 20 AWG drain wire.

### PVC Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

|                   |             |                                |   |                                                                    |                                |                                      |                              |                            |             |      |     |      |      |    |     |    |     |
|-------------------|-------------|--------------------------------|---|--------------------------------------------------------------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|-------------|------|-----|------|------|----|-----|----|-----|
| 350V 80°C<br>VW-1 | <b>8722</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 2 | Shielded:<br>Red &<br>Black<br><br>Unshielded:<br>Green &<br>White | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 18.0<br>18.5<br>36.0<br>36.0 | 8.2<br>8.4<br>16.4<br>16.4 | .015<br>.38 | .028 | .71 | .226 | 5.74 | 60 | 197 | 99 | 325 |
|-------------------|-------------|--------------------------------|---|--------------------------------------------------------------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|-------------|------|-----|------|------|----|-----|----|-----|

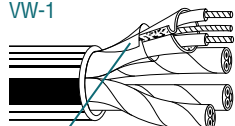


Z-Fold®

Beldfoil shield over Red and Black conductors only. 22 AWG drain wire.  
Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.

### Polypropylene Insulation • Chrome PVC Jacket (Cabled Around a Common Axis)

|                    |             |                          |   |                                                                                                   |             |                |              |              |             |      |     |      |      |    |    |    |     |
|--------------------|-------------|--------------------------|---|---------------------------------------------------------------------------------------------------|-------------|----------------|--------------|--------------|-------------|------|-----|------|------|----|----|----|-----|
| 400V 105°C<br>VW-1 | <b>8725</b> | NEC:<br>CM<br>CEC:<br>CM | 4 | Red & Black;<br>Green<br>& White;<br>White/Red &<br>White/Black;<br>White/Green &<br>White/Yellow | 500<br>1000 | 152.4<br>304.8 | 38.0<br>74.0 | 17.3<br>33.6 | .015<br>.38 | .030 | .76 | .345 | 8.76 | 27 | 89 | 49 | 161 |
|--------------------|-------------|--------------------------|---|---------------------------------------------------------------------------------------------------|-------------|----------------|--------------|--------------|-------------|------|-----|------|------|----|----|----|-----|



Shorting Fold

Four groups of two conductors with drain wires, each group individually Beldfoil shielded with polyester tape wrap. 22 AWG drain wire.

**20 and 18 AWG Stranded Conductors (7x28 and 16x30) • TC • 100% Beldfoil Shield over 20 AWG Pair • 22 AWG Stranded TC Drain Wire**

### Polyethylene Insulation • Beige PVC Jacket

|                                  |             |                          |                                                    |                                    |                       |                           |                      |                      |             |      |     |      |      |    |    |    |     |
|----------------------------------|-------------|--------------------------|----------------------------------------------------|------------------------------------|-----------------------|---------------------------|----------------------|----------------------|-------------|------|-----|------|------|----|----|----|-----|
| UL AWM Style 2094<br>(300V 60°C) | <b>9155</b> | NEC:<br>CM<br>CEC:<br>CM | 2<br>1 Shld<br>20 (7x28)<br>1 Unshld<br>18 (16x30) | Black &<br>Red<br>Green &<br>White | 500<br>U-1000<br>1000 | 152.4<br>U-304.8<br>304.8 | 24.5<br>47.0<br>48.0 | 11.2<br>21.4<br>21.8 | .020<br>.51 | .031 | .79 | .262 | 6.65 | 24 | 79 | 46 | 151 |
|                                  |             |                          |                                                    |                                    |                       |                           |                      |                      | .019        | .48  |     |      |      | 22 | 72 |    |     |



Z-Fold®

NEC Article 800

TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.



# Plenum-Rated

Unshielded

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                 |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

## 22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs

### Plenum • FEP Insulation • Red FEP Jacket

|                                                                                  |       |         |   |                                                                  |       |       |      |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------|-------|---------|---|------------------------------------------------------------------|-------|-------|------|------|------|-----|------|-----|------|------|
|  | 88442 | NEC:    | 1 | Black & Red                                                      | 100   | 30.5  | 2.3  | 1.0  | .006 | .15 | .012 | .30 | .102 | 2.59 |
|                                                                                  |       | CMP     |   |                                                                  | 500†  | 152.4 | 5.5  | 2.5  |      |     |      |     |      |      |
|                                                                                  |       | CEC:    |   |                                                                  | 1000† | 304.8 | 10.0 | 4.5  |      |     |      |     |      |      |
|                                                                                  |       | CMP FT6 |   |                                                                  |       |       |      |      |      |     |      |     |      |      |
|                                                                                  | 88741 | NEC:    | 2 | Black & Red,<br>Black & White                                    | 500†  | 152.4 | 9.5  | 4.3  | .006 | .15 | .012 | .30 | .169 | 4.29 |
|                                                                                  |       | CMP     |   |                                                                  | 1000† | 304.8 | 21.0 | 9.5  |      |     |      |     |      |      |
|                                                                                  |       | CEC:    |   |                                                                  |       |       |      |      |      |     |      |     |      |      |
|                                                                                  |       | CMP FT6 |   |                                                                  |       |       |      |      |      |     |      |     |      |      |
|                                                                                  | 88757 | NEC:    | 4 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue | 500†  | 152.4 | 16.0 | 7.3  | .006 | .15 | .012 | .30 | .200 | 5.08 |
|                                                                                  |       | CMP     |   |                                                                  | 1000† | 304.8 | 33.0 | 15.0 |      |     |      |     |      |      |
|                                                                                  |       | CEC:    |   |                                                                  |       |       |      |      |      |     |      |     |      |      |
|                                                                                  |       | CMP FT6 |   |                                                                  |       |       |      |      |      |     |      |     |      |      |

### Plenum • FEP Insulation • Natural Flamarrest® Jacket

|                                                                                  |                             |         |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------|-----------------------------|---------|---|-------------------------------------------------------------------------------------------------------|---------|---------|------|------|------|-----|------|-----|------|------|
|  | 82442<br><small>NEW</small> | NEC:    | 1 | Black & Red                                                                                           | U-1000† | U-304.8 | 83.0 | 37.7 | .006 | .15 | .014 | .36 | .112 | 2.84 |
|                                                                                  |                             | CMP     |   |                                                                                                       | 1000†   | 304.8   | 84.0 | 38.2 |      |     |      |     |      |      |
|                                                                                  |                             | CEC:    |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  |                             | CMP FT6 |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  | 82741                       | NEC:    | 2 | Black & Red,<br>Black & White                                                                         | U-1000† | U-304.8 | 18.0 | 8.2  | .006 | .15 | .014 | .36 | .179 | 4.55 |
|                                                                                  |                             | CMP     |   |                                                                                                       | 1000†   | 304.8   | 21.0 | 9.5  |      |     |      |     |      |      |
|                                                                                  |                             | CEC:    |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  |                             | CMP FT6 |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  | 82742                       | NEC:    | 3 | Black & Red,<br>Black & White,<br>Black & Green                                                       | U-1000† | U-304.8 | 24.0 | 10.9 | .006 | .15 | .014 | .36 | .191 | 4.85 |
|                                                                                  |                             | CMP     |   |                                                                                                       | 1000†   | 304.8   | 28.0 | 12.7 |      |     |      |     |      |      |
|                                                                                  |                             | CEC:    |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  |                             | CMP FT6 |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  | 82757                       | NEC:    | 4 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue                                      | U-1000  | U-304.8 | 31.0 | 14.1 | .006 | .15 | .014 | .36 | .210 | 5.33 |
|                                                                                  |                             | CMP     |   |                                                                                                       | 1000†   | 304.8   | 34.0 | 15.5 |      |     |      |     |      |      |
|                                                                                  |                             | CEC:    |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  |                             | CMP FT6 |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  | 82743                       | NEC:    | 6 | Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue,<br>Black & Yellow,<br>Black & Brown | U-1000† | U-304.8 | 44.0 | 20.0 | .006 | .15 | .014 | .36 | .237 | 6.02 |
|                                                                                  |                             | CMP     |   |                                                                                                       | 1000†   | 304.8   | 45.0 | 20.5 |      |     |      |     |      |      |
|                                                                                  |                             | CEC:    |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |
|                                                                                  |                             | CMP FT6 |   |                                                                                                       |         |         |      |      |      |     |      |     |      |      |

## 18 AWG Stranded Conductors (19x30) • Tinned Copper • Twisted Pair

### Plenum • FEP Insulation • Red FEP Jacket

|                                                                                    |       |         |   |             |       |       |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|-------|---------|---|-------------|-------|-------|------|-----|------|-----|------|-----|------|------|
|  | 89740 | NEC:    | 1 | Black & Red | 100   | 30.5  | 3.0  | 1.4 | .006 | .17 | .009 | .23 | .136 | 3.45 |
|                                                                                    |       | CMP     |   |             | 500†  | 152.4 | 9.0  | 4.1 |      |     |      |     |      |      |
|                                                                                    |       | CEC:    |   |             | 1000† | 304.8 | 17.0 | 7.7 |      |     |      |     |      |      |
|                                                                                    |       | CMP FT6 |   |             |       |       |      |     |      |     |      |     |      |      |

### Plenum • FEP Insulation • Red Fluorocopolymer Jacket

|                                                                                    |       |         |   |             |       |       |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|-------|---------|---|-------------|-------|-------|------|-----|------|-----|------|-----|------|------|
|  | 87740 | NEC:    | 1 | Black & Red | 500†  | 152.4 | 9.0  | 4.1 | .006 | .17 | .011 | .28 | .140 | 3.56 |
|                                                                                    |       | CMP     |   |             | 1000† | 304.8 | 17.0 | 7.7 |      |     |      |     |      |      |
|                                                                                    |       | CEC:    |   |             |       |       |      |     |      |     |      |     |      |      |
|                                                                                    |       | CMP FT6 |   |             |       |       |      |     |      |     |      |     |      |      |

### Plenum • FEP Insulation • Natural Flamarrest Jacket

|                                                                                    |       |         |   |             |        |         |      |     |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|-------|---------|---|-------------|--------|---------|------|-----|------|-----|------|-----|------|------|
|  | 82740 | NEC:    | 1 | Black & Red | U-1000 | U-304.8 | 17.0 | 7.7 | .006 | .17 | .014 | .36 | .146 | 3.71 |
|                                                                                    |       | CMP     |   |             | 1000†  | 304.8   | 18.0 | 8.2 |      |     |      |     |      |      |
|                                                                                    |       | CEC:    |   |             |        |         |      |     |      |     |      |     |      |      |
|                                                                                    |       | CMP FT6 |   |             |        |         |      |     |      |     |      |     |      |      |

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



By:



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**Plenum-Rated**

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                 |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG Stranded Conductors (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire****Plenum • FEP Insulation • Red FEP Jacket**

|                       |              |         |   |                                                                                     |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------|--------------|---------|---|-------------------------------------------------------------------------------------|-------|-------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88641</b> | NEC:    | 1 | Black & Red                                                                         | 100   | 30.5  | 2.4  | 1.1  | .006 | .15 | .014 | .36 | .106 | 2.69 | 31 | 102 | 59 | 194 |
|                       |              | CMP     |   |                                                                                     | 500†  | 152.4 | 6.0  | 2.7  |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |   |                                                                                     | 1000† | 304.8 | 11.0 | 5.0  |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |   |                                                                                     |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>89503</b> | NEC:    | 3 | Black & White,<br>Black & Red,<br>Black & Green                                     | 100   | 30.5  | 4.0  | 1.8  | .006 | .15 | .014 | .36 | .175 | 4.45 | 21 | 69  | 40 | 131 |
|                       |              | CMP     |   |                                                                                     | 500†  | 152.4 | 12.0 | 5.5  |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |   |                                                                                     | 1000† | 304.8 | 23.0 | 10.5 |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |   |                                                                                     |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>89504</b> | NEC:    | 4 | Black & White,<br>Black & Red,<br>Black & Green,<br>Black & Blue                    | 500†  | 152.4 | 14.5 | 6.6  | .006 | .15 | .014 | .36 | .192 | 4.88 | 21 | 69  | 40 | 131 |
|                       |              | CMP     |   |                                                                                     | 1000† | 304.8 | 31.0 | 14.1 |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |   |                                                                                     |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |   |                                                                                     |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>89505</b> | NEC:    | 5 | Black & White,<br>Black & Red,<br>Black & Green,<br>Black & Blue,<br>Black & Yellow | 100   | 30.5  | 4.9  | 2.2  | .006 | .15 | .014 | .36 | .197 | 5.00 | 21 | 69  | 40 | 131 |
|                       |              | CMP     |   |                                                                                     | 1000† | 304.8 | 35.0 | 15.9 |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |   |                                                                                     |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |   |                                                                                     |       |       |      |      |      |     |      |     |      |      |    |     |    |     |

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

|                       |              |         |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------|--------------|---------|----------------------------------|------------------------------------------------------------------|---------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>82641</b> | NEC:    | 1                                | Black & Red                                                      | U-1000† | U-304.8 | 9.0  | 4.1  | .006 | .15 | .014 | .36 | .106 | 2.69 | 31 | 102 | 59 | 194 |
|                       |              | CMP     |                                  |                                                                  | 1000†   | 304.8   | 10.0 | 4.5  |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>82502</b> | NEC:    | 2                                | Black & White,<br>Black & Red                                    | U-500†  | U-152.4 | 8.0  | 3.6  | .006 | .15 | .014 | .36 | .162 | 4.11 | 25 | 82  | 45 | 148 |
|                       |              | CMP     |                                  |                                                                  | U-1000† | U-304.8 | 15.0 | 6.8  |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  | 1000†   | 304.8   | 16.0 | 7.3  |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>82503</b> | NEC:    | 3                                | Black & White,<br>Black & Red,<br>Black & Green                  | U-1000† | U-304.8 | 19.0 | 8.6  | .006 | .15 | .014 | .36 | .169 | 4.29 | 25 | 82  | 45 | 148 |
|                       |              | CMP     |                                  |                                                                  | 1000†   | 304.8   | 20.0 | 9.1  |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>82504</b> | NEC:    | 4                                | Black & White,<br>Black & Red,<br>Black & Green,<br>Black & Blue | U-1000† | U-304.8 | 24.0 | 10.9 | .006 | .15 | .014 | .36 | .193 | 4.90 | 25 | 82  | 45 | 148 |
|                       |              | CMP     |                                  |                                                                  | 1000†   | 304.8   | 27.0 | 12.3 |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>82505</b> | NEC:    | 5                                | See<br>Chart 3<br>(Tech Info<br>Section)                         | U-1000† | U-304.8 | 30.0 | 13.6 | .006 | .15 | .015 | .38 | .196 | 4.98 | 25 | 82  | 45 | 148 |
|                       |              | CMP     |                                  |                                                                  | 1000†   | 304.8   | 33.0 | 15.0 |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>82506</b> | NEC:    | 6                                | See<br>Chart 3<br>(Tech Info<br>Section)                         | U-500†  | U-152.4 | 17.5 | 8.0  | .006 | .15 | .015 | .38 | .209 | 5.31 | 25 | 82  | 45 | 148 |
|                       |              | CMP     |                                  |                                                                  | U-1000† | U-304.8 | 34.0 | 15.5 |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  | 1000†   | 304.8   | 37.0 | 16.8 |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>82509</b> | NEC:    | 9                                | See<br>Chart 3<br>(Tech Info<br>Section)                         | 1000†   | 304.8   | 49.0 | 22.3 | .006 | .15 | .015 | .38 | .246 | 6.25 | 23 | 75  | 42 | 138 |
|                       |              | CMP     |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       | <b>82512</b> | NEC:    | 12.5<br>(12 pairs +<br>1 single) | See<br>Chart 3<br>(Tech Info<br>Section)                         | 1000†   | 304.8   | 60.0 | 27.3 | .006 | .15 | .015 | .38 | .278 | 7.06 | 23 | 75  | 42 | 138 |
|                       |              | CMP     |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CEC:    |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|                       |              | CMP FT6 |                                  |                                                                  |         |         |      |      |      |     |      |     |      |      |    |     |    |     |

TC = Tinned Copper

\*Capacitance between conductors.

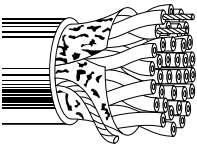
\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

# Plenum-Rated

Overall Beldfoil® Shield

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422 and EIA RS-485 Applications

| Description                                                                                                                      | Part No.              | UL NEC/<br>C(UL) CEC<br>Type | No. of<br>Pairs                | Color<br>Code                    | Standard<br>Lengths                      |               | Standard<br>Unit Weight |               | Nom. DCR     |                      | Nominal<br>OD        |               | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|--------------------------------|----------------------------------|------------------------------------------|---------------|-------------------------|---------------|--------------|----------------------|----------------------|---------------|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                  |                       |                              |                                |                                  | Ft.                                      | m             | Lbs.                    | kg            | Cond.        | Shield               | Inch                 | mm            |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| 24 AWG Stranded Conductors (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire |                       |                              |                                |                                  |                                          |               |                         |               |              |                      |                      |               |                     |                             |                  |               |                  |                |
| Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket                                                                       |                       |                              |                                |                                  |                                          |               |                         |               |              |                      |                      |               |                     |                             |                  |               |                  |                |
|                                                  | 300V RMS, Non-conduit | 88102                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 12.0<br>24.0  | 5.5<br>10.9  | 24.0Ω/M'<br>78.7Ω/km | 15.5Ω/M'<br>50.9Ω/km | .203<br>5.16  | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88103                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 15.5<br>31.0  | 7.0<br>14.1  | 24.0Ω/M'<br>78.7Ω/km | 15.5Ω/M'<br>50.9Ω/km | .239<br>6.07  | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88104                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 19.0<br>38.0  | 8.6<br>17.3  | 24.0Ω/M'<br>78.7Ω/km | 14.0Ω/M'<br>45.9Ω/km | .259<br>6.58  | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88105                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 5                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 25.0<br>44.0  | 11.4<br>20.0 | 24.0Ω/M'<br>78.7Ω/km | 14.0Ω/M'<br>45.9Ω/km | .267<br>6.78  | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88106                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 28.0<br>50.0  | 12.7<br>22.7 | 24.0Ω/M'<br>78.7Ω/km | 14.0Ω/M'<br>45.9Ω/km | .293<br>7.44  | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88107                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 7.5<br>(7 pairs +<br>1 single)   | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 32.5<br>59.0  | 14.8<br>26.8 | 24.0Ω/M'<br>78.7Ω/km | 14.0Ω/M'<br>45.9Ω/km | .293<br>7.44  | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88109                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9                                | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 36.5<br>74.0  | 16.6<br>33.6 | 24.0Ω/M'<br>78.7Ω/km | 13.0Ω/M'<br>42.7Ω/km | .352<br>8.94  | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88112                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 12.5<br>(12 pairs +<br>1 single) | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 48.0<br>97.0  | 21.8<br>44.1 | 24.0Ω/M'<br>78.7Ω/km | 11.8Ω/M'<br>38.7Ω/km | .397<br>10.08 | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88118                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 18.5<br>(18 pairs +<br>1 single) | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 66.5<br>148.0 | 30.2<br>67.3 | 24.0Ω/M'<br>78.7Ω/km | 11.0Ω/M'<br>36.1Ω/km | .482<br>12.24 | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |
|                                                                                                                                  |                       | 88125                        | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 25                               | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8          | 98.0<br>195.0 | 44.5<br>88.6 | 24.0Ω/M'<br>78.7Ω/km | 9.6Ω/M'<br>31.5Ω/km  | .581<br>14.76 | 100                 | 78%                         | 12.95            | 42.5          | 23.3             | 76.4           |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary ±10% from length shown.



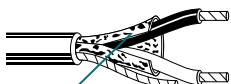
**Plenum-Rated**

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire**Plenum • FEP Insulation • Red FEP Jacket**

|                                                                                                                       |              |         |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|-----------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>88761</b> | NEC:    | 1 | Black,<br>Red | 100    | 30.5    | 2.7  | 1.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                                       |              | CMP     |   |               | U-500  | U-152.4 | 7.0  | 3.2 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                       |              | CEC:    |   |               | 500†   | 152.4   | 7.5  | 3.4 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                       |              | CMP FT6 |   |               | U-1000 | U-304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                       |              |         |   |               | 1000†  | 304.8   | 14.0 | 6.4 |      |     |      |     |      |      |    |     |    |     |

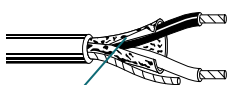
**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

|                                                                                                                       |              |         |   |               |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|-----------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|-------|-------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>87761</b> | NEC:    | 1 | Black,<br>Red | 500†  | 152.4 | 7.0  | 3.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                                       |              | CMP     |   |               | 1000† | 304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                       |              | CEC:    |   |               |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                       |              | CMP FT6 |   |               |       |       |      |     |      |     |      |     |      |      |    |     |    |     |

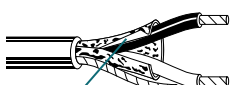
**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

|                                                                                                                       |              |         |   |               |         |         |      |     |      |     |      |     |      |      |    |     |    |     |
|-----------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|---------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>82761</b> | NEC:    | 1 | Black,<br>Red | U-500†  | U-152.4 | 6.5  | 3.0 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                                       |              | CMP     |   |               | U-1000† | U-304.8 | 12.0 | 5.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                       |              | CEC:    |   |               | 1000†   | 304.8   | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                       |              | CMP FT6 |   |               |         |         |      |     |      |     |      |     |      |      |    |     |    |     |

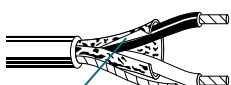
**18 AWG** Stranded Conductors (19x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**Plenum • FEP Insulation • Red FEP Jacket**

|                                                                                                                         |              |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>88760</b> | NEC:    | 1 | Black,<br>Red | 100    | 30.5    | 3.7  | 1.7  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|                                                                                                                         |              | CMP     |   |               | U-500  | U-152.4 | 12.5 | 5.7  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                         |              | CEC:    |   |               | 500†   | 152.4   | 13.0 | 5.9  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                         |              | CMP FT6 |   |               | U-1000 | U-304.8 | 24.0 | 10.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                         |              |         |   |               | 1000†  | 304.8   | 24.0 | 10.9 |      |     |      |     |      |      |    |     |    |     |

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

|                                                                                                                         |              |         |   |               |       |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|-------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>87760</b> | NEC:    | 1 | Black,<br>Red | U-500 | U-152.4 | 12.0 | 5.5  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|                                                                                                                         |              | CMP     |   |               | 500†  | 152.4   | 12.5 | 5.7  |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                         |              | CEC:    |   |               | 1000† | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                         |              | CMP FT6 |   |               |       |         |      |      |      |     |      |     |      |      |    |     |    |     |

**Plenum • FEP Insulation • Natural Flamarrest Jacket**

|                                                                                                                         |              |         |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|---------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>82760</b> | NEC:    | 1 | Black,<br>Red | U-500†  | U-152.4 | 11.5 | 5.2  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|                                                                                                                         |              | CMP     |   |               | U-1000† | U-304.8 | 22.0 | 10.0 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                         |              | CEC:    |   |               | 1000†   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                         |              | CMP FT6 |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

# Plenum-Rated

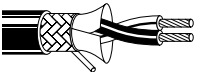
Overall Foil/Braid Shield

Low-Capacitance Computer and Computer P.O.S. Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

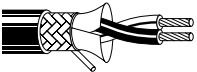
**Low Cap 24 AWG** Stranded (7x32) • TC • Twisted Pairs • Overall 100% Beldfoil® + 90% TC Braid Shield • 24 AWG Stranded TC Drain Wire

## Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

|                                                                                                           |                                    |                        |   |                                          |      |       |      |      |                   |                   |      |      |     |     |    |      |    |      |
|-----------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|---|------------------------------------------|------|-------|------|------|-------------------|-------------------|------|------|-----|-----|----|------|----|------|
| 300V RMS, Non-conduit<br> | <b>82841</b><br><small>new</small> | NEC:                   | 1 | See<br>Chart 5<br>(Tech Info<br>Section) | 500  | 152.4 | 16.0 | 7.3  | 24.0 $\Omega$ /M' | 3.1 $\Omega$ /M'  | .204 | 5.18 | 120 | 76% | 12 | 39.4 | 22 | 72.2 |
|                                                                                                           |                                    | CMP<br>CEC:<br>CMP FT6 |   |                                          | 1000 | 304.8 | 28.0 | 12.7 | 78.7 $\Omega$ /km | 10.2 $\Omega$ /km |      |      |     |     |    |      |    |      |

|                                                                                                           |                                    |                        |   |                                          |      |       |      |      |                   |                  |      |      |     |     |    |      |    |      |
|-----------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|---|------------------------------------------|------|-------|------|------|-------------------|------------------|------|------|-----|-----|----|------|----|------|
| 300V RMS, Non-conduit<br> | <b>82842</b><br><small>new</small> | NEC:                   | 2 | See<br>Chart 5<br>(Tech Info<br>Section) | 500  | 152.4 | 21.0 | 9.5  | 24.0 $\Omega$ /M' | 2.4 $\Omega$ /M' | .273 | 6.93 | 120 | 76% | 12 | 39.4 | 22 | 72.2 |
|                                                                                                           |                                    | CMP<br>CEC:<br>CMP FT6 |   |                                          | 1000 | 304.8 | 42.0 | 19.1 | 78.7 $\Omega$ /km | 7.9 $\Omega$ /km |      |      |     |     |    |      |    |      |

## Plenum • Foam FEP Insulation • Red FEP Jacket

|                                                                                                           |                                    |                        |   |                                          |      |       |      |      |                   |                   |      |      |     |     |    |      |    |      |
|-----------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|---|------------------------------------------|------|-------|------|------|-------------------|-------------------|------|------|-----|-----|----|------|----|------|
| 300V RMS, Non-conduit<br> | <b>89841</b><br><small>new</small> | NEC:                   | 1 | See<br>Chart 5<br>(Tech Info<br>Section) | 500  | 152.4 | 15.5 | 7.0  | 24.0 $\Omega$ /M' | 3.1 $\Omega$ /M'  | .202 | 5.13 | 120 | 76% | 12 | 39.4 | 22 | 72.2 |
|                                                                                                           |                                    | CMP<br>CEC:<br>CMP FT6 |   |                                          | 1000 | 304.8 | 29.0 | 13.2 | 78.7 $\Omega$ /km | 10.2 $\Omega$ /km |      |      |     |     |    |      |    |      |

**22 AWG Solid • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil + 90% TC Braid Shield • 22 AWG Solid TC Drain Wire**

## Plenum • Solid FEP Insulation • Black FEP Jacket

|                                                                                                             |              |                                     |   |                               |       |       |      |      |                   |                  |      |      |     |       |      |      |    |      |
|-------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|---|-------------------------------|-------|-------|------|------|-------------------|------------------|------|------|-----|-------|------|------|----|------|
| 300V RMS, Non-conduit<br> | <b>1269A</b> | NEC:                                | 2 | Red & Blue,<br>Black & Yellow | 1000† | 304.8 | 48.0 | 21.8 | 16.5 $\Omega$ /M' | 2.1 $\Omega$ /M' | .240 | 6.10 | 100 | 69.5% | 15.5 | 50.9 | 27 | 88.6 |
|                                                                                                             |              | MPP, CMP<br>CEC:<br>MPP,<br>CMP FT6 |   |                               |       |       |      |      | 54.1 $\Omega$ /km | 6.9 $\Omega$ /km |      |      |     |       |      |      |    |      |

**22 AWG Solid • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil + 55% TC Braid Shield plus Polyester Tape • 22 AWG Solid TC Drain Wire**

## Plenum • Solid FEP Insulation • Black FEP Jacket

|                                                                                                             |              |                                     |   |                       |       |       |      |      |                   |                   |      |      |     |       |      |      |    |      |
|-------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|---|-----------------------|-------|-------|------|------|-------------------|-------------------|------|------|-----|-------|------|------|----|------|
| 300V RMS, Non-conduit<br> | <b>89855</b> | NEC:                                | 2 | 1 Pair:<br>Red & Blue | 500†  | 152.4 | 24.0 | 10.9 | 16.5 $\Omega$ /M' | 4.9 $\Omega$ /M'  | .272 | 6.91 | 100 | 69.5% | 15.5 | 50.9 | 27 | 88.6 |
|                                                                                                             |              | MPP, CMP<br>CEC:<br>MPP,<br>CMP FT6 |   |                       | 1000† | 304.8 | 42.0 | 19.1 | 54.1 $\Omega$ /km | 16.1 $\Omega$ /km |      |      |     |       |      |      |    |      |

**22 AWG Solid • Bare Copper • Twisted Pairs • Overall 100% Beldfoil + 55% TC Braid Shield • 22 AWG Solid TC Drain Wire**

## Plenum • Solid FEP Insulation • Black FEP Jacket

|                                                                                                             |              |                                     |   |                                             |       |       |      |      |                   |                   |      |      |     |       |      |      |    |      |
|-------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|---|---------------------------------------------|-------|-------|------|------|-------------------|-------------------|------|------|-----|-------|------|------|----|------|
| 300V RMS, Non-conduit<br> | <b>89696</b> | NEC:                                | 2 | 1 Pair:<br>Blue & White<br>with Blue Stripe | 500†  | 152.4 | 25.0 | 11.4 | 16.5 $\Omega$ /M' | 4.2 $\Omega$ /M'  | .262 | 6.65 | 100 | 69.5% | 15.5 | 50.9 | 27 | 88.6 |
|                                                                                                             |              | MPP, CMP<br>CEC:<br>MPP,<br>CMP FT6 |   |                                             | 1000† | 304.8 | 47.0 | 21.4 | 54.1 $\Omega$ /km | 13.8 $\Omega$ /km |      |      |     |       |      |      |    |      |

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

# Plenum-Rated

Individually Shielded Pairs

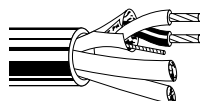
Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422 and Digital Audio Applications

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG** Stranded (7x32) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 24 AWG Stranded TC Drain Wire

## Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

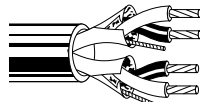
300V RMS, Non-conduit



|              |                                |    |                                          |               |                |                |              |                                        |                                        |               |     |     |      |    |      |      |
|--------------|--------------------------------|----|------------------------------------------|---------------|----------------|----------------|--------------|----------------------------------------|----------------------------------------|---------------|-----|-----|------|----|------|------|
| <b>89729</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2  | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 18.5<br>31.0   | 8.4<br>14.1  | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .261<br>6.63  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89730</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3  | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 23.0<br>40.0   | 10.5<br>18.2 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .278<br>7.06  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89728</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4  | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 26.5<br>50.0   | 12.0<br>22.7 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .307<br>7.80  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89705</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 5  | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 30.5<br>62.0   | 13.9<br>28.2 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .327<br>8.31  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89731</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6  | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 35.0<br>71.0   | 15.9<br>32.3 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .361<br>9.17  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89757</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 7  | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 39.5<br>80.0   | 18.0<br>36.4 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .361<br>9.17  | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89732</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 9  | See<br>Chart 5<br>(Tech Info<br>Section) | 1000†         | 304.8          | 106.0          | 48.2         | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .429<br>10.90 | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89734</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 12 | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 71.0<br>140.0  | 32.3<br>63.6 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .498<br>12.65 | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
| <b>89758</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 18 | See<br>Chart 5<br>(Tech Info<br>Section) | 500†<br>1000† | 152.4<br>304.8 | 100.5<br>204.0 | 45.7<br>92.7 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .616<br>15.65 | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |

## Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

300V RMS, Non-conduit



|              |                                |   |                                          |                 |                  |              |              |                                        |                                        |              |     |     |      |    |      |      |
|--------------|--------------------------------|---|------------------------------------------|-----------------|------------------|--------------|--------------|----------------------------------------|----------------------------------------|--------------|-----|-----|------|----|------|------|
| <b>82729</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | See<br>Chart 5<br>(Tech Info<br>Section) | U-1000<br>1000† | U-304.8<br>304.8 | 27.0<br>28.0 | 12.3<br>12.7 | 23.3 $\Omega$ /M'<br>76.4 $\Omega$ /km | 14.4 $\Omega$ /M'<br>47.2 $\Omega$ /km | .255<br>6.48 | 100 | 78% | 13.5 | 44 | 22.5 | 73.8 |
|--------------|--------------------------------|---|------------------------------------------|-----------------|------------------|--------------|--------------|----------------------------------------|----------------------------------------|--------------|-----|-----|------|----|------|------|

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

## Plenum-Rated

Individually Shielded Pairs

Audio, Control and Instrumentation Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of Prop. | Nom. Capacitance |            |               |             |
|-------------|----------|------------------------------|-----------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|--------------------------|------------------|------------|---------------|-------------|
|             |          |                              |                 |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                          | * pF/<br>Ft.     | * pF/<br>m | ** pF/<br>Ft. | ** pF/<br>m |

**22 AWG** Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs • Individually Shielded 100% Beldfoil® • 22 AWG Stranded TC Drain Wire††

### Plenum • Halar® Insulation • Natural Flamarrest® Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

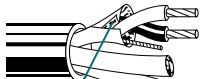
|                       |              |                                |   |                                     |                                                                    |                              |                           |                                        |                                        |           |    |     |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|-------------------------------------|--------------------------------------------------------------------|------------------------------|---------------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>82723</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | Red &<br>Black,<br>Green &<br>White | U-500† U-152.4<br>U-1000 U-304.8<br>1000† 304.8<br>U-2000† U-609.6 | 10.0<br>19.0<br>20.0<br>38.0 | 4.5<br>8.6<br>9.1<br>17.3 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 16.6 $\Omega$ /M'<br>54.5 $\Omega$ /km | .148 3.76 | 36 | 62% | 43 | 141 | 75 | 246 |
|-----------------------|--------------|--------------------------------|---|-------------------------------------|--------------------------------------------------------------------|------------------------------|---------------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|



Z-Fold®

††82723 has 24 AWG drain wire  
Pairs cabled on common axis to reduce diameter.

|                       |              |                                |   |                                          |                                                 |                      |                     |                                        |                                        |           |    |     |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|------------------------------------------|-------------------------------------------------|----------------------|---------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>82777</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | U-500† U-152.4<br>U-1000 U-304.8<br>1000† 304.8 | 19.0<br>38.0<br>39.0 | 8.6<br>17.3<br>17.7 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 11.3 $\Omega$ /M'<br>37.1 $\Omega$ /km | .234 5.94 | 46 | 62% | 35 | 115 | 76 | 249 |
|-----------------------|--------------|--------------------------------|---|------------------------------------------|-------------------------------------------------|----------------------|---------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|



Z-Fold®

|  |              |                                |   |                                          |             |      |      |                                        |                                        |           |    |     |    |     |    |     |
|--|--------------|--------------------------------|---|------------------------------------------|-------------|------|------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
|  | <b>82778</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6 | See<br>Chart 3<br>(Tech Info<br>Section) | 1000† 304.8 | 67.0 | 30.5 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 11.3 $\Omega$ /M'<br>37.1 $\Omega$ /km | .330 8.38 | 46 | 62% | 35 | 115 | 76 | 249 |
|--|--------------|--------------------------------|---|------------------------------------------|-------------|------|------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|

### Plenum • FEP Insulation • Red FEP Jacket

|                       |              |                                |   |                                     |                                     |                     |                   |                                        |                                        |           |    |     |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|-------------------------------------|-------------------------------------|---------------------|-------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88723</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | Red &<br>Black,<br>Green &<br>White | 100 30.5<br>500 152.4<br>1000 304.8 | 3.4<br>11.0<br>21.0 | 1.5<br>5.0<br>9.5 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 16.6 $\Omega$ /M'<br>54.5 $\Omega$ /km | .148 3.76 | 40 | 69% | 35 | 115 | 67 | 220 |
|-----------------------|--------------|--------------------------------|---|-------------------------------------|-------------------------------------|---------------------|-------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|



Z-Fold®

††88723 has 24 AWG drain wire

|                       |              |                                |   |                                          |                                       |                     |                    |                                        |                                        |           |    |     |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|------------------------------------------|---------------------------------------|---------------------|--------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88777</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | 100 30.5<br>500† 152.4<br>1000† 304.8 | 6.0<br>21.0<br>42.0 | 2.7<br>9.5<br>19.1 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 11.3 $\Omega$ /M'<br>37.1 $\Omega$ /km | .234 5.94 | 50 | 69% | 31 | 102 | 67 | 220 |
|-----------------------|--------------|--------------------------------|---|------------------------------------------|---------------------------------------|---------------------|--------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|



Z-Fold®

|  |              |                                |   |                                          |                                       |                     |                     |                                        |                                        |           |    |     |    |     |    |     |
|--|--------------|--------------------------------|---|------------------------------------------|---------------------------------------|---------------------|---------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
|  | <b>88778</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6 | See<br>Chart 3<br>(Tech Info<br>Section) | 100 30.5<br>500† 152.4<br>1000† 304.8 | 8.8<br>40.0<br>75.0 | 4.0<br>18.2<br>34.1 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 11.3 $\Omega$ /M'<br>37.1 $\Omega$ /km | .309 7.85 | 50 | 69% | 31 | 102 | 67 | 220 |
|--|--------------|--------------------------------|---|------------------------------------------|---------------------------------------|---------------------|---------------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|

Pairs cabled on common axis to reduce diameter.

### Plenum • FEP Insulation • Red Fluorocopolymer Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

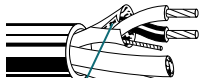
|                       |              |                                |   |                                     |                           |              |            |                                        |                                        |           |    |     |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|-------------------------------------|---------------------------|--------------|------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>87723</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | Red &<br>Black,<br>Green &<br>White | 500† 152.4<br>1000† 304.8 | 11.0<br>20.0 | 5.0<br>9.1 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 16.6 $\Omega$ /M'<br>54.5 $\Omega$ /km | .148 3.76 | 40 | 69% | 35 | 115 | 67 | 220 |
|-----------------------|--------------|--------------------------------|---|-------------------------------------|---------------------------|--------------|------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|



Z-Fold®

††87723 has 24 AWG drain wire.

|                       |              |                                |   |                                          |                           |              |             |                                        |                                        |           |    |     |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|------------------------------------------|---------------------------|--------------|-------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>87777</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | 500† 152.4<br>1000† 304.8 | 20.0<br>40.0 | 9.1<br>18.2 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 11.3 $\Omega$ /M'<br>37.1 $\Omega$ /km | .234 5.94 | 50 | 69% | 31 | 102 | 67 | 220 |
|-----------------------|--------------|--------------------------------|---|------------------------------------------|---------------------------|--------------|-------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|



Z-Fold®

|  |              |                                |   |                                          |                           |              |              |                                        |                                        |           |    |     |    |     |    |     |
|--|--------------|--------------------------------|---|------------------------------------------|---------------------------|--------------|--------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|
|  | <b>87778</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 6 | See<br>Chart 3<br>(Tech Info<br>Section) | 500† 152.4<br>1000† 304.8 | 37.5<br>73.0 | 17.0<br>33.2 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 11.3 $\Omega$ /M'<br>37.1 $\Omega$ /km | .309 7.85 | 50 | 69% | 31 | 102 | 67 | 220 |
|--|--------------|--------------------------------|---|------------------------------------------|---------------------------|--------------|--------------|----------------------------------------|----------------------------------------|-----------|----|-----|----|-----|----|-----|

Pairs cabled on common axis to reduce diameter.

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  for spools and  $\pm 5\%$  for UnReel from length show.

Halar is an Ausimont Corporation trademark.

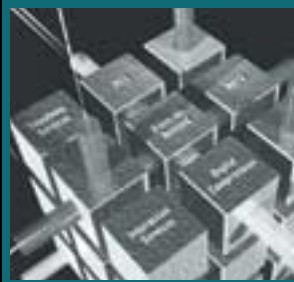


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**1-800-527-0010**

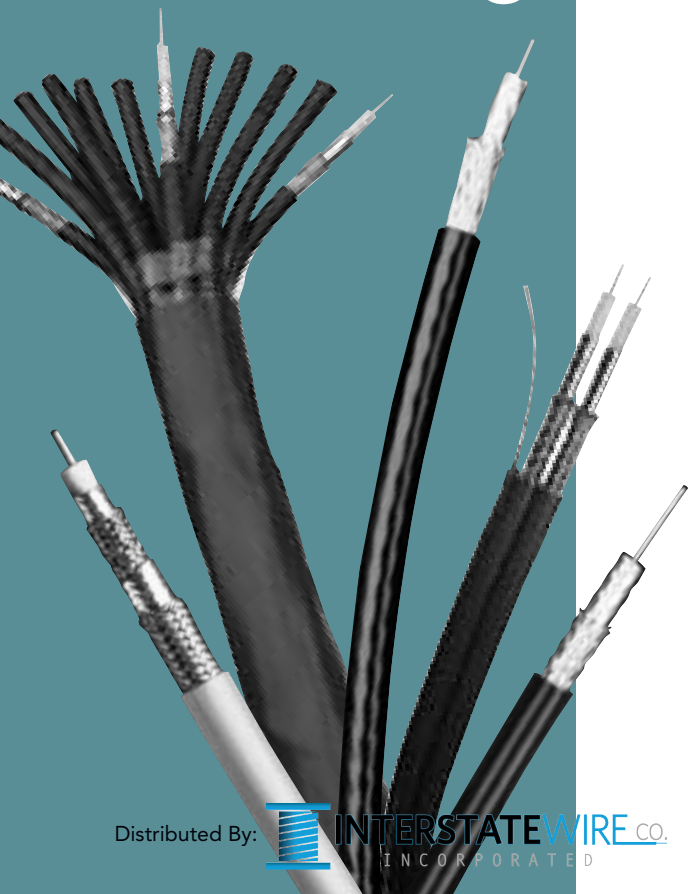




# Coaxial Cables

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## Introduction

Compare Belden® Coaxial cables and the companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden Coaxial cables are time-tested for performance. Performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden Coaxial cable can be counted on for positive, reliable and trouble-free operation.

Belden Coaxial cables are engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, bundled RGB, high-flex SVHS, video triax, conformable coax and more.

Most of our Coax cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a Coax cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Coax Cable Shielding

Belden's line of coaxial cable features a wide range of shielding configurations. Among the options are:

#### Duofoil®

Duofoil is a shield in which metallic foil is applied to both sides of a supporting polyester or polypropylene film.

#### Duobond®

Duobond is essentially the same construction as Duofoil (a laminated shielding tape consisting of aluminum foil/plastic film/aluminum foil), but with an extra layer of heat-sensitive adhesive bonding the foil shield to the dielectric core. This foil shield provides 100% coverage and insures maximum shield protection.

#### Duobond II (Foil/Braid)

Combines all the features of Duobond with an outer braid applied for greater protection against interference and to increase the overall tensile strength.

#### Duobond III (Tri-Shield)

Duobond III utilizes the Duobond II design (foil/braid) plus an additional surrounding layer of Duofoil. This extra layer of foil improves shield reliability and provides an additional interference barrier.

#### Duobond IV (Quad Shield)

Duobond IV adds a second layer of braid to the Tri-Shield design (foil/braid/foil/braid). This extra layer of braid shield provides improved strength and durability.

#### Duobond Plus®

Features the same foil/braid/foil construction as Duobond II but with the addition of a shorting fold in the outermost foil. This fold prevents a slot opening from being created in the shield, thereby preventing signal egress or ingress. This unique feature creates the effect of a solid metal conduit, which improves the high-frequency performance of the cable. (See the Technical Information section of this catalog, page 16.88, for a more detailed explanation of "shorting folds.")

### Coax Cable Packaging

As with most Belden cables, several Coax cable products are available in Belden's UnReel® cardboard dispenser. The UnReel is a unique packaging dispensing system developed by Belden to save time, cut costs and labor, and eliminate the need for dereeling equipment. Lightweight and more economical than conventional drums or reels, UnReel dispensers have pre-punched handles for easy, individual transport as well as rectangular boxes for easy pallet delivery and storage. UnReel cable pays out smoothly and evenly with no kinking, twisting, or backlashing. It also rolls out 60% faster than conventionally packaged cable.

### Corresponding Literature

#### Technical Bulletins

TB-65: *Digital Studio Cable Guide*

#### Product Bulletins

NP 182: *Belden Expands Line of Low Loss 50 Ohm RF Transmission Cable*

NP 183: *Belden Introduces Flexible Brilliance® 1505F Precision Digital Video Coaxial Cable*



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1-800-527-0010

## RG Coaxial and Triaxial Reference Guide

DS-3 and DS-4 Interconnect and Cross-Connect Cables  
and Low Loss 50 Ohm Wireless RF Transmission Cables

| Cable Designation                                         | Part No.      | Page No. | Spec. Reference | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.)                          | Jacket Material<br>(OD in.) | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>(Ω) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|-----------------------------------------------------------|---------------|----------|-----------------|--------------------------------------------------------|---------------------------------|-------------------------------------------------------------------|-----------------------------|---------------------------|------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>DS-3 and DS-4 Interconnect and Cross-connect Cable</b> |               |          |                 |                                                        |                                 |                                                                   |                             |                           |                  |                       |                                                |                                    |
| 728A Type                                                 | <b>9231</b>   | 6.42     | Belden          | 1/.031" BC<br>(9.9)                                    | PE<br>(.198)                    | Inner<br>None/98% SPC<br>(187.0)<br>Outer<br>None/95% BC<br>(2.1) | PVC-NC<br>(.305)            | .071                      | 75               | 21.0                  | -40 to +60                                     | 1900                               |
| 734A Type DS3-4                                           | <b>734A1</b>  | 6.55     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(.235)               | .031                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734A Type DS3-4<br>Bundled 12-Coax                        | <b>734A12</b> | 6.55     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(1.026)              | .635                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734A Type DS3-4<br>Plenum                                 | <b>734A1P</b> | 6.55     | Belden          | 1/.032" BC<br>(10.0)                                   | FFEP<br>(.148)                  | BF/85% TC<br>(2.4)                                                | FLM<br>(.215)               | .037                      | 75               | 17.3                  | -0 to +75                                      | 300                                |
| 734A Type DS3-4<br>Bundled 6-Coax                         | <b>734A6</b>  | 6.55     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(.772)               | .465                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734D Type DS3-4                                           | <b>734D1</b>  | 6.55     | Belden          | 1/.032" SPC<br>(10.0)                                  | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(.235)               | .031                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734D Type DS3-4<br>Bundled 12-Coax                        | <b>734D12</b> | 6.55     | Belden          | 1/.032" SPC<br>(10.0)                                  | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(1.026)              | .635                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734D Type DS3-4<br>Plenum                                 | <b>734D1P</b> | 6.55     | Belden          | 1/.032" SPC<br>(10.0)                                  | FFEP<br>(.148)                  | BF/85% TC<br>(2.4)                                                | FLM<br>(.215)               | .037                      | 75               | 17.3                  | -0 to +75                                      | 300                                |
| 734D Type DS3-4<br>1-Coax with Tracer                     | <b>734D1T</b> | 6.55     | Belden          | 1/.032" SPC<br>(10.0)                                  | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(.235 x .309)        | .032                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734D Type DS3-4<br>Dual Coax                              | <b>734D2</b>  | 6.55     | Belden          | 1/.032" SPC<br>(10.0)                                  | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(.235 x .470)        | .063                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734D Type DS3-4<br>2-Coax with Tracer                     | <b>734D2T</b> | 6.55     | Belden          | 1/.032" SPC<br>(10.0)                                  | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(.235 x .550)        | .064                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 734D Type DS3-4<br>Bundled 6-Coax                         | <b>734D6</b>  | 6.55     | Belden          | 1/.032" SPC<br>(10.0)                                  | GIFPE<br>(.148)                 | BF/85% TC<br>(2.4)                                                | PVC<br>(.772)               | .465                      | 75               | 16.8                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4                                           | <b>735A1</b>  | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.129)               | .011                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Bundled 12-Coax                        | <b>735A12</b> | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.581)               | .165                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Bundled 16-Coax                        | <b>735A16</b> | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.636)               | .230                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Plenum                                 | <b>735A1P</b> | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FFEP<br>(.077)                  | BF/93% TC<br>(5.3)                                                | FLM<br>(.129)               | .018                      | 75               | 17.5                  | -0 to +75                                      | 300                                |
| 735A Type DS3-4<br>1-Coax with Tracer                     | <b>735A1T</b> | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.129 x .203)        | .013                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Dual Coax                              | <b>735A2</b>  | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.129 x .258)        | .022                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Bundled 24-Coax                        | <b>735A24</b> | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.870)               | .360                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>2-Coax with Tracer                     | <b>735A2T</b> | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.129 x .332)        | .025                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Bundled 3-Coax                         | <b>735A3</b>  | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.309)               | .045                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Bundled 6-Coax                         | <b>735A6</b>  | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.399)               | .085                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Bundled 8-Coax                         | <b>735A8</b>  | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.447)               | .011                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| 735A Type DS3-4<br>Bundled 9-Coax                         | <b>735A9</b>  | 6.54     | Belden          | 1/.0159" SPC<br>(41.0)                                 | FPE<br>(.077)                   | BF/93% TC<br>(5.3)                                                | PVC<br>(.484)               | .124                      | 75               | 17.7                  | -40 to +75                                     | 300                                |
| <b>Low Loss 50 Ohm Wireless RF Transmission Cables</b>    |               |          |                 |                                                        |                                 |                                                                   |                             |                           |                  |                       |                                                |                                    |
| RF300                                                     | <b>7809A</b>  | 6.60     | Belden          | 1/.072" BC<br>(2.0)                                    | GIFPE<br>(.190)                 | DB/95% TC<br>(2.7)                                                | PE<br>(.300)                | .055                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RF300R<br>Riser                                           | <b>7809R</b>  | 6.60     | Belden          | 1/.072" BC<br>(2.0)                                    | GIFPE<br>(.190)                 | DB/95% TC<br>(2.7)                                                | PVC<br>(.300)               | .065                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RF300WB<br>Burial                                         | <b>7809WB</b> | 6.60     | Belden          | 1/.072" BC<br>(2.0)                                    | GIFPE<br>(.190)                 | DB/95% TC<br>(2.7)                                                | PE<br>(.300)                | .055                      | 50               | 23.0                  | -40 to +80                                     | 300                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

## RG Coaxial and Triaxial Reference Guide

Low Loss 50 Ohm Wireless RF Transmission Cables  
and Microwave Conformable® Coax

| Cable Designation                                                  | Part No.      | Page No. | Spec. Reference | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.) | Jacket Material<br>(OD in.) | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>(Ω) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|--------------------------------------------------------------------|---------------|----------|-----------------|--------------------------------------------------------|---------------------------------|------------------------------------------|-----------------------------|---------------------------|------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>Low Loss 50 Ohm Wireless RF Transmission Cables</b> (continued) |               |          |                 |                                                        |                                 |                                          |                             |                           |                  |                       |                                                |                                    |
| RG-174/U Type RF100                                                | <b>7805</b>   | 6.57     | Belden          | 1/.018" BC (32.0)                                      | PE (.061)                       | DF/90% TC (9.1)                          | PVC (.110)                  | .010                      | 50               | 31.2                  | -40 to +80                                     | 1100                               |
| RG-174/U Type RF 100 Low Loss                                      | <b>7805R</b>  | 6.57     | Belden          | 1/.0195" BC (27.3)                                     | FPE (.060)                      | DF/90% TC (9.4)                          | PVC (.110)                  | .010                      | 50               | 26.2                  | -40 to +80                                     | 300                                |
| RG-58/U Type RF195                                                 | <b>7806A</b>  | 6.58     | Belden          | 1/.037" BC (7.6)                                       | GIFPE (.110)                    | DF/90% TC (4.2)                          | PE (.195)                   | .024                      | 50               | 24.3                  | -40 to +80                                     | 300                                |
| RG-58/U Type RF195 Riser                                           | <b>7806R</b>  | 6.58     | Belden          | 1/.037" BC (7.6)                                       | GIFPE (.110)                    | DF/90% TC (4.2)                          | PVC (.195)                  | .026                      | 50               | 24.3                  | -40 to +80                                     | 300                                |
| RG-58/U Type RF200                                                 | <b>7807A</b>  | 6.58     | Belden          | 1/.044" BC (3.3)                                       | GIFPE (.116)                    | DF/95% TC (4.2)                          | PE (.195)                   | .025                      | 50               | 23.5                  | -40 to +80                                     | 300                                |
| RG-58/U Type RF200 Riser                                           | <b>7807R</b>  | 6.58     | Belden          | 1/.044" BC (3.3)                                       | GIFPE (.116)                    | DF/95% TC (4.2)                          | PVC (.195)                  | .028                      | 50               | 23.5                  | -40 to +80                                     | 300                                |
| RG-8/X Type RF240                                                  | <b>7808A</b>  | 6.59     | Belden          | 1/.057" BC (3.2)                                       | GIFPE (.150)                    | DB/95% TC (3.5)                          | PE (.240)                   | .037                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/X Type RF240 Riser                                            | <b>7808R</b>  | 6.59     | Belden          | 1/.057" BC (3.2)                                       | GIFPE (.150)                    | DB/95% TC (3.5)                          | PVC (.240)                  | .041                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/X Type RF240 Burial                                           | <b>7808WB</b> | 6.59     | Belden          | 1/.057" BC (3.2)                                       | GIFPE (.150)                    | DB/95% TC (3.5)                          | PE (.240)                   | .037                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RF300                                                              | <b>7809A</b>  | 6.60     | Belden          | 1/.072" BC (2.0)                                       | GIFPE (.190)                    | DB/95% TC (2.7)                          | PE (.300)                   | .055                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RF300R Riser                                                       | <b>7809R</b>  | 6.60     | Belden          | 1/.072" BC (2.0)                                       | GIFPE (.190)                    | DB/95% TC (2.7)                          | PVC (.300)                  | .065                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RF300WB Burial                                                     | <b>7809WB</b> | 6.60     | Belden          | 1/.072" BC (2.0)                                       | GIFPE (.190)                    | DB/95% TC (2.7)                          | PE (.300)                   | .055                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type RF400                                                  | <b>7810A</b>  | 6.61     | Belden          | 1/.108" BCCA (1.3)                                     | GIFPE (.285)                    | DB/95% TC (1.8)                          | PE (.405)                   | .078                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type RF400 Riser                                            | <b>7810R</b>  | 6.61     | Belden          | 1/.108" BCCA (1.3)                                     | GIFPE (.285)                    | DB/95% TC (1.8)                          | PVC (.405)                  | .090                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type RF400 Burial                                           | <b>7810WB</b> | 6.61     | Belden          | 1/.108" BCCA (1.3)                                     | GIFPE (.285)                    | DB/95% TC (1.8)                          | PE (.405)                   | .078                      | 50               | 23.0                  | -40 to +80                                     | 300                                |
| <b>Microwave Conformable Coax</b>                                  |               |          |                 |                                                        |                                 |                                          |                             |                           |                  |                       |                                                |                                    |
| RG-401/U Type Conformable                                          | <b>1675A</b>  | 6.69     | Belden          | 1/.065" SCCS (2.5)                                     | TFE (.210)                      | Copper - Tin Composite                   | None (.246)                 | .081                      | 50               | 29.5                  | -70 to +200                                    | 3000                               |
| RG-401/U Type Conformable                                          | <b>1675J</b>  | 6.69     | Belden          | 1/.065" SCCS (2.5)                                     | TFE (.210)                      | Copper - Tin Composite                   | PVC (.286)                  | .091                      | 50               | 29.5                  | -40 to +105                                    | 3000                               |
| RG-402/U Type Conformable                                          | <b>1673A</b>  | 6.69     | Belden          | 1/.0365" SCCS (20.5)                                   | TFE (.116)                      | Copper-Tin Composite (4.5)               | None (.138)                 | .025                      | 50               | 29.5                  | -70 to +200                                    | 1,900                              |
| RG-402/U Type Conformable                                          | <b>1673B</b>  | 6.69     | Belden          | 1/.0362" SPC (7.9)                                     | TFE (.116)                      | Copper - Tin Composite                   | None (.138)                 | .025                      | 50               | 29.5                  | -70 to +200                                    | 1900                               |
| RG-402/U Type Conformable Jacketed                                 | <b>1673J</b>  | 6.69     | Belden          | 1/.0365" SCCS (20.5)                                   | TFE (.116)                      | Copper - Tin Composite (4.5)             | PVC (.178)                  | .031                      | 50               | 29.5                  | -70 to +200                                    | 1,900                              |
| RG-405/U Type Conformable                                          | <b>1671A</b>  | 6.68     | Belden          | 1/.0201" SCCS (64.2)                                   | TFE (.062)                      | Copper-Tin Composite (10.2)              | None (.085)                 | .012                      | 50               | 29.5                  | -70 to +200                                    | 1,500                              |
| RG-405/U Type Conformable                                          | <b>1671B</b>  | 6.68     | Belden          | 1/.0201" SPC (25.7)                                    | TFE (.062)                      | Copper - Tin Composite                   | None (.085)                 | .012                      | 50               | 29.5                  | -70 to +200                                    | 1500                               |
| RG-405/U Type Conformable Jacketed                                 | <b>1671J</b>  | 6.68     | Belden          | 1/.0201" SCCS (64.2)                                   | TFE (.062)                      | Copper - Tin Composite                   | PVC (.127)                  | .016                      | 50               | 29.5                  | -70 to +200                                    | 1,500                              |
| M17-151 Type Conformable                                           | <b>1674A</b>  | 6.68     | Belden          | 1/.0113" SCCS (205.0)                                  | TFE (.084)                      | Copper - Tin Composite                   | None (.047)                 | .003                      | 50               | 29.5                  | -70 to +200                                    | 1,000                              |
| M17-151 Type Conformable                                           | <b>1674B</b>  | 6.68     | Belden          | 1/.0113" SPC (11.0)                                    | TFE (.034)                      | Copper - Tin Composite                   | None (.047)                 | .003                      | 50               | 29.5                  | -70 to +200                                    | 1000                               |
| 75 Ohm Conformable                                                 | <b>1672A</b>  | 6.70     | Belden          | 1/.0113" SCCS (205.0)                                  | TFE (.062)                      | Copper-Tin Composite (10.2)              | None (.085)                 | .012                      | 75               | 19.5                  | -70 to +200                                    | 500                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.



By:



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# RG Coaxial and Triaxial Reference Guide

Microwave Conformable® Coax  
and RG-6 Type

| Cable Designation                             | Part No.      | Page No. | Spec. Reference        | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.) | Jacket Material<br>(OD in.) | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>(Ω) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|-----------------------------------------------|---------------|----------|------------------------|--------------------------------------------------------|---------------------------------|------------------------------------------|-----------------------------|---------------------------|------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>Microwave Conformable Coax</b> (continued) |               |          |                        |                                                        |                                 |                                          |                             |                           |                  |                       |                                                |                                    |
| 75 Ohm Conformable                            | <b>1672B</b>  | 6.70     | Belden                 | 1/.0113" SPC (11.0)                                    | TFE (.062)                      | Copper - Tin Composite                   | None (.085)                 | .012                      | 50               | 19.5                  | -40 to +105                                    | 500                                |
| 75 Ohm Conformable Jacketed                   | <b>1672J</b>  | 6.70     | Belden                 | 1/.0113" SCCS (205.0)                                  | TFE (.062)                      | Copper - Tin Composite (10.2)            | PVC (.127)                  | .016                      | 75               | 19.5                  | -70 to +200                                    | 500                                |
| <b>RG-6 Type</b>                              |               |          |                        |                                                        |                                 |                                          |                             |                           |                  |                       |                                                |                                    |
| RG-6/U Type Plenum                            | <b>1152A</b>  | 6.25     | Belden, IBM P/N1501919 | 1/.040" CCS (28.0)                                     | FFEP (.170)                     | DF/60% TC DF/40% TC (1.8)                | FEP (.273)                  | .048                      | 75               | 16.5                  | -70 to +200                                    | 300                                |
| RG-6/U Type                                   | <b>1189A</b>  | 6.24     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIV, 60% AL 40% AL (4.8)                | PVC (.298)                  | .032                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Plenum                            | <b>1189AP</b> | 6.24     | Belden                 | 1/.040" CCS (28.0)                                     | FFEP (.170)                     | DBIV/60% AL 40% AL (4.8)                 | FLM (.248)                  | .039                      | 75               | 16.3                  | -20 to +75                                     | 300                                |
| RG-6/U Type Burial                            | <b>1190A</b>  | 6.25     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIV/60% AL 40% AL (4.8)                 | PE (.298)                   | .029                      | 75               | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type Messengered                       | <b>1191AM</b> | 6.24     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIV/60% AL 40% AL (4.8)                 | PVC (.298 x .433)           | .040                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Messengered                       | <b>1258AM</b> | 6.19     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270 x .410)           | .042                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Messengered                       | <b>1260AM</b> | 6.23     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DB+/80% AL (4.6)                         | PVC (.275 x .416)           | .042                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                                   | <b>1530A</b>  | 6.20     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/90% AL (5.0)                        | PVC (.270)                  | .029                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Plenum                            | <b>1530AP</b> | 6.20     | Belden                 | 1/.040" CCS (28.0)                                     | FFEP (.170)                     | DBII/90% AL (5.0)                        | FLM (.235)                  | .027                      | 75               | 16.3                  | -20 to +75                                     | 300                                |
| RG-6/U Type Messengered                       | <b>1531AM</b> | 6.20     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/90% AL (5.0)                        | PVC (.270 x .410)           | .044                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Burial                            | <b>1532A</b>  | 6.20     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/90% AL (5.0)                        | PE (.270)                   | .024                      | 75               | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type                                   | <b>1545A</b>  | 6.19     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270)                  | .030                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                                   | <b>1546A</b>  | 6.21     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIII/60% AL (6.5)                       | PVC (.275)                  | .029                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                                   | <b>1613A</b>  | 6.22     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIII/80% AL (5.2)                       | PVC (.275)                  | .030                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Burial                            | <b>1614A</b>  | 6.22     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIII/80% AL (5.2)                       | PE (.275)                   | .024                      | 75               | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type Messengered                       | <b>1615AM</b> | 6.22     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIII/80% AL (5.2)                       | PVC (.275 x .416)           | .043                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Messengered                       | <b>1616AM</b> | 6.22     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIII/80% AL (5.2)                       | PVC (.275 x .416)           | .043                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                                   | <b>1621A</b>  | 6.24     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DB+/90% AL (3.7)                         | PVC (.275)                  | .030                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Digital Video                     | <b>1694A</b>  | 6.44     | Belden                 | 1/.040" BC (6.4)                                       | GIFPE (.180)                    | DF/95% TC (2.8)                          | PVC (.275)                  | .039                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Plenum                            | <b>1695A</b>  | 6.44     | Belden                 | 1/.040" BC (6.4)                                       | FFEP (.170)                     | DF/95% TC (2.8)                          | FLM (.234)                  | .033                      | 75               | 16.2                  | -20 to +75                                     | 300                                |
| RG-6/U Type                                   | <b>1829A</b>  | 6.31     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270)                  | .028                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                                   | <b>1829AC</b> | 6.31     | Belden                 | 1/.040" BC (6.4)                                       | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270)                  | .028                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Burial                            | <b>1829B</b>  | 6.31     | Belden                 | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PE (.270)                   | .024                      | 75               | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type Burial                            | <b>1829BC</b> | 6.31     | Belden                 | 1/.040" BC (6.4)                                       | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PE (.270)                   | .024                      | 75               | 16.2                  | -55 to +80                                     | 300                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

# RG Coaxial and Triaxial Reference Guide

## RG-6 Type

| Cable Designation            | Part No.      | Page No. | Spec. Reference | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.) | Jacket Material<br>(OD in.) | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>( $\Omega$ ) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|------------------------------|---------------|----------|-----------------|--------------------------------------------------------|---------------------------------|------------------------------------------|-----------------------------|---------------------------|---------------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-6 Type (continued)</b> |               |          |                 |                                                        |                                 |                                          |                             |                           |                           |                       |                                                |                                    |
| RG-6/U Type Messengered      | <b>1832AM</b> | 6.20     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/90% AL (5.0)                        | PVC (.270 x .410)           | .042                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Burial           | <b>1837A</b>  | 6.21     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIII/60% AL (6.5)                       | PE (.275)                   | .024                      | 75                        | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type Static Ground    | <b>1839A</b>  | 6.32     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270 x .405)           | .040                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Static Ground    | <b>1839AC</b> | 6.32     | Belden          | 1/.040" BC (6.4)                                       | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270 x .405)           | .040                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Static Ground    | <b>1840A</b>  | 6.32     | Belden          | 2/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.273 x .703)           | .069                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Static Ground    | <b>1840AC</b> | 6.32     | Belden          | 2/.040" BC (6.4)                                       | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.273 x .703)           | .069                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>1841A</b>  | 6.32     | Belden          | 2/.040" BC (28.0)                                      | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.273 x .595)           | .058                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>1841AC</b> | 6.32     | Belden          | 2/.040" BC (6.4)                                       | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.273 x .595)           | .058                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Burial           | <b>1843A</b>  | 6.33     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PE (.273 x .750)            | .052                      | 75                        | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type                  | <b>1884A</b>  | 6.24     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIV/60% AL 40% AL (4.8)                 | PVC (.298)                  | .035                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>3131A</b>  | 6.80     | Belden          | 1/.040" CCS (28.0)                                     | FPE (.180)                      | DBIV/60% AL 40% AL (3.6)                 | PVC (.298)                  | .041                      | 75                        | 16.2                  | -30 to +75                                     | 350                                |
| RG-6/U Type                  | <b>3132A</b>  | 6.80     | Belden          | 1/.040" CCS (28.0)                                     | FFPE (.170)                     | DBIV/60% AL 40% AL (3.6)                 | FCP (.274)                  | .036                      | 75                        | 16.3                  | -20 to +150                                    | 300                                |
| RG-6/U Type                  | <b>7915A</b>  | 6.33     | Belden          | 1/.040" BC (6.4)                                       | GIFPE (.180)                    | DB+/80% AL (4.6)                         | PVC (.275)                  | .029                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>7916A</b>  | 6.33     | Belden          | 1/.040" BC (6.4)                                       | GIFPE (.180)                    | DBIV/60% AL 40% AL (4.8)                 | PVC (.298)                  | .032                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6A/U Type                 | <b>8215</b>   | 6.38     | Belden          | 1/.028" CCS (32.0)                                     | PE (.185)                       | None/96% BC None/95% BC (1.1)            | PE (.332)                   | .069                      | 75                        | 20.5                  | -55 to +80                                     | 2,700                              |
| RG-6/U Type                  | <b>9058</b>   | 6.23     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DB+/80% AL (4.6)                         | PVC (.275)                  | .029                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Messengered      | <b>9059AM</b> | 6.23     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DB+/80% AL (4.6)                         | PVC (.275 x .416)           | .042                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Burial           | <b>9062</b>   | 6.23     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DB+/80% AL (4.6)                         | PE (.275)                   | .023                      | 75                        | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type Burial           | <b>9066</b>   | 6.19     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PE (.270)                   | .026                      | 75                        | 16.2                  | -55 to +80                                     | 300                                |
| RG-6/U Type                  | <b>9072</b>   | 6.23     | Belden          | 2/.040" CCS (28.0)                                     | GIFPE (.180)                    | DB+/80% AL (4.6)                         | PVC (.280 x .605)           | .061                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>9077</b>   | 6.19     | Belden          | 2/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270 x .590)           | .057                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>9116</b>   | 6.19     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270)                  | .030                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>9116N</b>  | 6.19     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270)                  | .030                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type Plenum           | <b>9116P</b>  | 6.19     | Belden          | 1/.040" CCS (28.0)                                     | FFEP (.170)                     | DBII/60% AL (9.0)                        | FLM (.235)                  | .025                      | 75                        | 16.3                  | -20 to +75                                     | 300                                |
| RG-6/U Type Riser            | <b>9116R</b>  | 6.19     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270)                  | .030                      | 75                        | 16.2                  | -30 to +75                                     | 300                                |
| RG-6/U Type Messengered      | <b>9117M</b>  | 6.19     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (9.0)                        | PVC (.270 x .410)           | .042                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                  | <b>9118</b>   | 6.21     | Belden          | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBII/60% AL (6.5)                        | PVC (.275)                  | .026                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.



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# RG Coaxial and Triaxial Reference Guide

## RG-6 and RG-8 Types

| Cable Designation                 | Part No.      | Page No. | Spec. Reference           | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.)           | Jacket Material<br>(OD in.)        | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>( $\Omega$ ) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|-----------------------------------|---------------|----------|---------------------------|--------------------------------------------------------|---------------------------------|----------------------------------------------------|------------------------------------|---------------------------|---------------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-6 Type (continued)</b>      |               |          |                           |                                                        |                                 |                                                    |                                    |                           |                           |                       |                                                |                                    |
| RG-6/U Type Messengered           | <b>9119M</b>  | 6.21     | Belden                    | 1/.040" CCS (28.0)                                     | GIFPE (.180)                    | DBIII/60% AL (5.0)                                 | PVC (.275 x .416)                  | .042                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                       | <b>9248</b>   | 6.38     | Belden                    | 1/.040" BC (6.4)                                       | GIFPE (.180)                    | DF/61% TC (5.0)                                    | PVC (.270)                         | .031                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-6/U Type                       | <b>9290</b>   | 6.38     | Belden                    | 1/.037" BC (0.1)                                       | FPE (.180)                      | None/95% BC None/95% BC (2.0)                      | PVC (.288)                         | .054                      | 75                        | 17.3                  | -40 to +80                                     | 300                                |
| RG-6/U Type Plenum                | <b>82120</b>  | 6.25     | Belden                    | 1/.040" CCS (28.0)                                     | FFEP (.170)                     | DF/95% TC (1.7)                                    | FLM (.234)                         | .044                      | 75                        | 16.5                  | -20 to +75                                     | 300                                |
| RG-6/U Type Plenum                | <b>82248</b>  | 6.38     | Belden                    | 1/.040" BC (7.5)                                       | FFEP (.170)                     | DF/63% TC (5.1)                                    | FLM (.226)                         | .030                      | 75                        | 16.5                  | -20 to +75                                     | 300                                |
| RG-6/U Type Plenum                | <b>87120</b>  | 6.25     | Belden                    | 1/.040" CCS (28.0)                                     | FFEP (.170)                     | DF/95% TC (1.7)                                    | FCP (.234)                         | .043                      | 75                        | 16.5                  | -20 to +150                                    | 300                                |
| RG-6/U Type Plenum                | <b>89120</b>  | 6.25     | Belden                    | 1/.040" CCS (28.0)                                     | FFEP (.170)                     | DF/95% TC (1.7)                                    | FEP (.234)                         | .044                      | 75                        | 16.5                  | -70 to +200                                    | 300                                |
| RG-6/U Type Plenum                | <b>89248</b>  | 6.38     | Belden                    | 1/.040" BC (7.5)                                       | FFEP (.170)                     | DF/63% TC (5.1)                                    | FEP (.222)                         | .032                      | 75                        | 16.5                  | -70 to +200                                    | 300                                |
| <b>RG-8 Type</b>                  |               |          |                           |                                                        |                                 |                                                    |                                    |                           |                           |                       |                                                |                                    |
| RG-8/U Type                       | <b>7733A</b>  | 6.66     | Belden                    | 1/.108" BC (0.9)                                       | FFEP (.280)                     | DF/90% TC (1.8)                                    | FCP (.355)                         | .100                      | 50                        | 24.2                  | -20 to +150                                    | 300                                |
| RG-8/X Type RF240                 | <b>7808A</b>  | 6.59     | Belden                    | 1/.057" BC (3.2)                                       | GIFPE (.150)                    | DB/95% TC (3.5)                                    | PE (.240)                          | .037                      | 50                        | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/X Type RF240 Riser           | <b>7808R</b>  | 6.59     | Belden                    | 1/.057" BC (3.2)                                       | GIFPE (.150)                    | DB/95% TC (3.5)                                    | PVC (.240)                         | .041                      | 50                        | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/X Type RF240 Burial          | <b>7808WB</b> | 6.59     | Belden                    | 1/.057" BC (3.2)                                       | GIFPE (.150)                    | DB/95% TC (3.5)                                    | PE (.240)                          | .037                      | 50                        | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type RF400                 | <b>7810A</b>  | 6.61     | Belden                    | 1/.108" BCCA (1.3)                                     | GIFPE (.285)                    | DB/95% TC (1.8)                                    | PE (.405)                          | .078                      | 50                        | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type RF400 Riser           | <b>7810R</b>  | 6.61     | Belden                    | 1/.108" BCCA (1.3)                                     | GIFPE (.285)                    | DB/95% TC (1.8)                                    | PVC (.405)                         | .090                      | 50                        | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type RF400 Burial          | <b>7810WB</b> | 6.61     | Belden                    | 1/.108" BCCA (1.3)                                     | GIFPE (.285)                    | DB/95% TC (1.8)                                    | PE (.405)                          | .078                      | 50                        | 23.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type                       | <b>8214</b>   | 6.65     | Belden                    | 7/.108" BC (1.2)                                       | FRFPE (.285)                    | None/97% BC (1.1)                                  | PVC (.403)                         | .101                      | 50                        | 26.0                  | -40 to +80                                     | 300                                |
| RG-8/U Type                       | <b>8237</b>   | 6.65     | JAN-C-17A                 | 7/.085" BC (1.9)                                       | PE (.285)                       | None/97% BC (1.1)                                  | PVC (.405)                         | .101                      | 52                        | 28.5                  | -40 to +80                                     | 3,700                              |
| RG-8A/U Type                      | <b>9251</b>   | 6.65     | MIL-C-17D                 | 7/.085" BC (1.9)                                       | PE (.285)                       | None/97% BC (1.2)                                  | PVC-NC (.405)                      | .099                      | 52                        | 29.5                  | -40 to +80                                     | 3,700                              |
| RG-8/X Type                       | <b>9258</b>   | 6.65     | Belden                    | 19/.058" BC (4.3)                                      | GIFPE (.155)                    | None/95% BC (3.3)                                  | PVC (.242)                         | .037                      | 50                        | 24.8                  | -40 to +80                                     | 300                                |
| RG-8/U Type Thick Ethernet        | <b>9880</b>   | 6.79     | Belden, DEC PN17-00451-00 | 1/.0855" BC (1.4)                                      | FPE (.243)                      | DBIV/94% TC, 90% TC                                | PVC (.405)                         | .116                      | 50                        | 26.0                  | -40 to +60                                     | 300                                |
| RG-8/U Type Triaxial              | <b>9888</b>   | 6.86     | Belden                    | 7/.036" BC (1.2)                                       | FPE (.285)                      | Inner None/97% BC (1.2)<br>Outer None/80% BC (2.1) | Inner PE (.370)<br>Outer PE (.480) | .130                      | 50                        | 26.0                  | -55 to +80                                     | 300                                |
| RG-8/U Type                       | <b>9913</b>   | 6.66     | Belden                    | 1/.108" BC (0.9)                                       | SSPE (.286)                     | DBII/90% TC (1.8)                                  | PVC (.405)                         | .104                      | 50                        | 24.6                  | -40 to +80                                     | 300                                |
| RG-8/U Type                       | <b>9913F7</b> | 6.66     | Belden                    | 7/.036" BC (1.1)                                       | GIFPE (.285)                    | DB/95% TC (1.1)                                    | BELFLEX (.405)                     | .088                      | 50                        | 24.6                  | -40 to +80                                     | 3700                               |
| RG-8/U Type                       | <b>9914</b>   | 6.66     | Belden                    | 1/.103" BC (1.2)                                       | GIFPE (.285)                    | DBII/95% TC (1.1)                                  | PVC (.403)                         | .104                      | 50                        | 24.8                  | -40 to +80                                     | 300                                |
| RG-8/U Type Thick Ethernet Plenum | <b>89880</b>  | 6.79     | Belden, DEC PN17-00324-00 | 1/.0855" BC (1.4)                                      | FFEP (.245)                     | DBIV/90% TC, 90% TC                                | FCP (.375)                         | .126                      | 50                        | 26.0                  | -25 to +150                                    | 300                                |
| RG-8/U Type Plenum                | <b>89913</b>  | 6.66     | Belden                    | 1/.108" BC (0.9)                                       | SSFEP (.295)                    | DBII/90% TC (1.8)                                  | FCP (.364)                         | .114                      | 50                        | 25.0                  | -20 to +150                                    | 300                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

# RG Coaxial and Triaxial Reference Guide

## RG/11U Type

| Cable Designation                       | Part No.      | Page No. | Spec. Reference        | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.)           | Jacket Material<br>(OD in.)           | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>( $\Omega$ ) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|-----------------------------------------|---------------|----------|------------------------|--------------------------------------------------------|---------------------------------|----------------------------------------------------|---------------------------------------|---------------------------|---------------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-11/U Type</b>                     |               |          |                        |                                                        |                                 |                                                    |                                       |                           |                           |                       |                                                |                                    |
| RG-11/U Type Plenum                     | <b>1153A</b>  | 6.28     | Belden, IBM P/N1501908 | 1/.064" CCS (11.0)                                     | FFEP (.280)                     | DF/60% TC<br>DF/40% TC (1.8)                       | FEP (.387)                            | .092                      | 75                        | 16.5                  | -70 to +200                                    | 300                                |
| RG-11/U Type                            | <b>1523A</b>  | 6.26     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBII/60% AL (4.1)                                  | PVC (.400)                            | .054                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type                            | <b>1523AN</b> | 6.26     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBII/60% AL (4.1)                                  | PVC (.400)                            | .054                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type Plenum                     | <b>1523AP</b> | 6.26     | Belden                 | 1/.064" CCS (11.0)                                     | FFEP (.274)                     | DBII/60% AL (4.1)                                  | PVDF (.348)                           | .057                      | 75                        | 16.3                  | -20 to +150                                    | 300                                |
| RG-11/U Type Riser                      | <b>1523R</b>  | 6.26     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBII/60% AL (4.1)                                  | PVC (.400)                            | .054                      | 75                        | 16.2                  | -30 to +75                                     | 300                                |
| RG-11/U Type Messengered                | <b>1524AM</b> | 6.26     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBII/60% AL (4.1)                                  | PVC (.400 x .580)                     | .080                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type Burial                     | <b>1525A</b>  | 6.26     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBII/60% AL (4.1)                                  | PE (.400)                             | .046                      | 75                        | 16.2                  | -55 to +80                                     | 300                                |
| RG-11/U Type                            | <b>1617A</b>  | 6.28     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBIV/60% AL 40% AL (3.0)                           | PVC (.407)                            | .059                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type                            | <b>1618A</b>  | 6.28     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBIV/60% AL 40% AL (3.0)                           | PE (.407)                             | .053                      | 75                        | 16.2                  | -55 to +80                                     | 300                                |
| RG-11/U Type Messengered                | <b>1619AM</b> | 6.28     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBIV/60% AL 40% AL (3.0)                           | PVC (.407 x .560)                     | .075                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type Messengered                | <b>1620AM</b> | 6.28     | Belden                 | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DBIV/60% AL 40% AL (3.0)                           | PVC (.407 x .560)                     | .078                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type Triaxial High-Flex Version | <b>1858A</b>  | 6.52     | Belden                 | 19/.064" BC (3.0)                                      | FPE (.312)                      | Inner None/95% BC (1.2)<br>Outer None/95% BC (1.4) | Inner PE (.405)<br>Outer BELFX (.520) | .147                      | 75                        | 17.3                  | -50 to +80                                     | 300                                |
| RG-11/U Type Triaxial Plenum            | <b>1859A</b>  | 6.52     | Belden                 | 19/.064" BC (3.0)                                      | FFEP (.285)                     | Inner None/95% (1.4)<br>Outer None/87% (1.4)       | Inner FCP (.350)<br>Outer FCP (.406)  | .128                      | 75                        | 16.5                  | -20 to +125                                    | 300                                |
| RG-11/U Type                            | <b>3094A</b>  | 6.80     | Belden                 | 1/.064" CCS (11.0)                                     | FPE (.280)                      | DBIV/60% AL 40% AL (1.8)                           | PVC (.407)                            | .062                      | 75                        | 16.2                  | -40 to +80                                     | 600                                |
| RG-11/U Type                            | <b>3095A</b>  | 6.81     | Belden                 | 1/.064" CCS (11.0)                                     | FFPE (.280)                     | DBIV/60% AL 40% AL (1.8)                           | FCP (.387)                            | .076                      | 75                        | 16.5                  | -20 to +150                                    | 300                                |
| RG-11/U Type                            | <b>7731A</b>  | 6.44     | Belden                 | 1/.064" BC (2.5)                                       | GIFPE (.280)                    | DF/95% TC (1.5)                                    | PVC (.400)                            | .081                      | 75                        | 16.0                  | -40 to +75                                     | 300                                |
| RG-11/U Type Plenum                     | <b>7732A</b>  | 6.44     | Belden                 | 1/.064" BC (2.5)                                       | FFEP (.274)                     | DF/95% TC (2.5)                                    | FCP (.348)                            | .075                      | 75                        | 16.3                  | -20 to +150                                    | 300                                |
| RG-11/U Type Triax Flooded              | <b>7803A</b>  | 6.53     | Belden                 | 1/.064" BC (2.5)                                       | GIFPE (.285)                    | Inner None/95% BC (1.6)<br>Outer None/95% BC (1.4) | Inner PE (.365)<br>Outer PE (.475)    | .112                      | 75                        | 16.1                  | -55 to +80                                     | 300                                |
| RG-11/U Type                            | <b>8213</b>   | 6.39     | Belden                 | 1/.064" BC (2.5)                                       | GIFPE (.285)                    | None/97% BC (1.1)                                  | PE (.405)                             | .079                      | 75                        | 16.1                  | -55 to +80                                     | 300                                |
| RG-11/U Type Triaxial                   | <b>8233</b>   | 6.53     | Belden                 | 1/.064" BC (2.5)                                       | GIFPE (.285)                    | Inner None/95% BC (1.4)<br>Outer None/80% BC (1.4) | Inner PE (.365)<br>Outer PE (.475)    | .113                      | 75                        | 16.1                  | -55 to +80                                     | 300                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.



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# RG Coaxial and Triaxial Reference Guide

## RG/11U and RG-58 Types

| Cable Designation               | Part No.     | Page No. | Spec. Reference | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.)           | Jacket Material<br>(OD in.)          | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>(Ω) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|---------------------------------|--------------|----------|-----------------|--------------------------------------------------------|---------------------------------|----------------------------------------------------|--------------------------------------|---------------------------|------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-11/U Type (continued)</b> |              |          |                 |                                                        |                                 |                                                    |                                      |                           |                  |                       |                                                |                                    |
| RG-11/U Type Triaxial           | <b>8233A</b> | 6.53     | Belden          | 1/.064" BC (2.5)                                       | GIFPE (.285)                    | Inner None/95% BC (1.4)<br>Outer None/80% BC (1.4) | Inner PVC (.365)<br>Outer PVC (.475) | .113                      | 75               | 16.1                  | -40 to +80                                     | 300                                |
| RG-11/U Type                    | <b>8238</b>  | 6.39     | JAN-C-17A       | 7/.048" TC (6.1)                                       | FRSFPE (.285)                   | None/97% BC (1.2)                                  | PVC (.405)                           | .099                      | 75               | 20.5                  | -40 to +80                                     | 300                                |
| RG-11A/U Type                   | <b>8261</b>  | 6.39     | MIL-C-17D       | 7/.048" TC (6.1)                                       | PE (.285)                       | None/97% BC (1.2)                                  | PVC-NC (.405)                        | .090                      | 75               | 20.5                  | -40 to +60                                     | 3,700                              |
| RG-11/U Type                    | <b>9011</b>  | 6.26     | Belden          | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DF/40% AL (5.3)                                    | PVC (.400)                           | .060                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type                    | <b>9064</b>  | 6.27     | Belden          | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DB+/77% AL (3.8)                                   | PVC (.400)                           | .062                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type Messengered        | <b>9065M</b> | 6.27     | Belden          | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DB+/77% AL (3.8)                                   | PVC (.400 x .580)                    | .080                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-11/U Type Triaxial           | <b>9192</b>  | 6.52     | Belden          | 19/.064" BC (3.3)                                      | FPE (.312)                      | Inner None/90% BC (1.6)<br>Outer None/82% BC (1.7) | Inner PE (.390)<br>Outer PVC (.520)  | .134                      | 75               | 17.3                  | -40 to +80                                     | 300                                |
| RG-11/U QPL M17/6-RG11          | <b>9212</b>  | 6.75     | MIL-C-17G       | 7/.048" TC (6.1)                                       | PE (.285)                       | None/97% BC (1.2)                                  | PVC-NC (.405)                        | .090                      | 75               | 20.5                  | -40 to +85                                     | 3,700                              |
| RG-11/U Type Triaxial           | <b>9232</b>  | 6.52     | Belden          | 19/.064" BC (3.0)                                      | FPE (.312)                      | Inner None/90% BC (1.6)<br>Outer None/82% BC (1.7) | Inner PE (.390)<br>Outer H (.520)    | .140                      | 75               | 17.3                  | -20 to +80                                     | 300                                |
| RG-11/U Type                    | <b>9292</b>  | 6.39     | Belden          | 1/.064" BC (2.5)                                       | FPE (.280)                      | DF/61% TC (2.8)                                    | PVC (.405)                           | .077                      | 75               | 18.1                  | -40 to +80                                     | 300                                |
| RG-11/U Type Burial             | <b>9764</b>  | 6.27     | Belden          | 1/.064" CCS (11.0)                                     | GIFPE (.280)                    | DB+/77% AL (3.8)                                   | PE (.400)                            | .056                      | 75               | 16.2                  | -55 to +80                                     | 300                                |
| RG-11/U Type Plenum             | <b>89292</b> | 6.39     | Belden          | 1/.064" BC (2.5)                                       | FFEP (.274)                     | DF/63% TC (2.9)                                    | FEP (.348)                           | .073                      | 75               | 16.3                  | -70 to +200                                    | 300                                |
| <b>RG-58 Type</b>               |              |          |                 |                                                        |                                 |                                                    |                                      |                           |                  |                       |                                                |                                    |
| RG-58/U Type RF195              | <b>7806A</b> | 6.58     | Belden          | 1/.037" BC (7.6)                                       | GIFPE (.110)                    | DF/90% TC (4.2)                                    | PE (.195)                            | .024                      | 50               | 24.3                  | -40 to +80                                     | 300                                |
| RG-58/U Type RF195 Riser        | <b>7806R</b> | 6.58     | Belden          | 1/.037" BC (7.6)                                       | GIFPE (.110)                    | DF/90% TC (4.2)                                    | PVC (.195)                           | .026                      | 50               | 24.3                  | -40 to +80                                     | 300                                |
| RG-58/U Type RF200              | <b>7807A</b> | 6.58     | Belden          | 1/.044" BC (3.3)                                       | GIFPE (.116)                    | DF/95% TC (4.2)                                    | PE (.195)                            | .025                      | 50               | 23.5                  | -40 to +80                                     | 300                                |
| RG-58/U Type RF200 Riser        | <b>7807R</b> | 6.58     | Belden          | 1/.044" BC (3.3)                                       | GIFPE (.116)                    | DF/95% TC (4.2)                                    | PVC (.195)                           | .028                      | 50               | 23.5                  | -40 to +80                                     | 300                                |
| RG-58A/U Type                   | <b>8219</b>  | 6.64     | Belden          | 19/.037" TC (8.8)                                      | FPE (.114)                      | None/96% TC (4.1)                                  | PVC (.194)                           | .025                      | 53               | 26.5                  | -40 to +80                                     | 300                                |
| RG-58/U                         | <b>8240</b>  | 6.64     | JAN-C-17A       | 1/.033" BC (10.0)                                      | PE (.116)                       | None/95% TC (4.1)                                  | PVC (.193)                           | .025                      | 51               | 28.5                  | -40 to +80                                     | 1,400                              |
| RG-58A/U Type                   | <b>8259</b>  | 6.64     | JAN-C-17A       | 19/.035" TC (10.8)                                     | PE (.116)                       | None/95% TC (4.1)                                  | PVC (.192)                           | .024                      | 50               | 30.8                  | -40 to +75                                     | 1,400                              |
| RG-58C/U QPL M17/155/U QPL      | <b>8262</b>  | 6.73     | MIL-C-17G       | 19/.035" TC (10.8)                                     | PE (.115)                       | None/95% TC (4.1)                                  | PVC-NC (.195)                        | .026                      | 50               | 30.8                  | -40 to +85                                     | 1,400                              |
| RG-58/U Type                    | <b>9201</b>  | 6.63     | Belden          | 1/.033" BC (10.0)                                      | PE (.116)                       | None/78% BC (5.5)                                  | PVC (.193)                           | .022                      | 52               | 29.7                  | -40 to +80                                     | 1,400                              |
| RG-58/U QPL M17/28-RG058        | <b>9203</b>  | 6.73     | MIL-C-17G       | 19/.035" TC (10.8)                                     | PE (.116)                       | None/95% TC (4.1)                                  | PVC-NC (.195)                        | .025                      | 50               | 30.8                  | -40 to +85                                     | 1,400                              |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.



# RG Coaxial and Triaxial Reference Guide

## RG-58 and RG-59/U Types

| Cable Designation                       | Part No. | Page No. | Spec. Reference         | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.)           | Jacket Material<br>(OD in.)            | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>( $\Omega$ ) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|-----------------------------------------|----------|----------|-------------------------|--------------------------------------------------------|---------------------------------|----------------------------------------------------|----------------------------------------|---------------------------|---------------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-58 Type (continued)</b>           |          |          |                         |                                                        |                                 |                                                    |                                        |                           |                           |                       |                                                |                                    |
| RG-58A/U Type Triaxial                  | 9222     | 6.86     | Belden                  | 7/.0126" TC (9.5)                                      | PE (.114)                       | Inner None/95% TC (4.7)<br>Outer None/85% TC (4.3) | Inner PE (.175)<br>Outer PVC (.240)    | .037                      | 50                        | 30.8                  | -40 to +75                                     | 1,400                              |
| RG-58/U Type                            | 9223     | 6.78     | Belden                  | 7/.030" TC (10.8)                                      | PE (.112)                       | DB/95% TC (4.1)                                    | PVC (.195)                             | .026                      | 50                        | 37.0                  | -40 to +80                                     | 1,900                              |
| RG-58A/U Type                           | 9310     | 6.63     | Belden                  | 1/.033" BC (10.0)                                      | PE (.114)                       | DBII/55% TC (14.0)                                 | PVC (.193)                             | .020                      | 50                        | 30.8                  | -40 to +80                                     | 1,400                              |
| RG-58A/U Type                           | 9311     | 6.64     | Belden                  | 19/.037" TC (8.8)                                      | FPE (.114)                      | DBII/55% TC (17.0)                                 | PVC (.193)                             | .018                      | 52                        | 26.0                  | -40 to +80                                     | 300                                |
| RG-58/U Type Thin Ethernets             | 9907     | 6.79     | DEC P/N 17-01248-00     | 19/.037" TC (8.8)                                      | FPE (.102)                      | DBII/93% TC (5.8)                                  | PVC (.185)                             | .022                      | 50                        | 25.4                  | -40 to +75                                     | 300                                |
| RG-58/U Type Plenum                     | 82240    | 6.64     | Belden                  | 1/.032" BC (10.2)                                      | FEP (.107)                      | None/95% TC (6.7)                                  | FLM (.159)                             | .025                      | 53                        | 27.5                  | -20 to +75                                     | 1,400                              |
| RG-58/U Type Thin Ethernets Plenum      | 82907    | 6.79     | Belden                  | 19/.0375" TC (8.8)                                     | FFEP (.095)                     | DBII/94% TC (5.8)                                  | FLM (.160)                             | .022                      | 50                        | 26.0                  | -20 to +75                                     | 300                                |
| RG-58/U Type Plenum                     | 88240    | 6.64     | Belden                  | 1/.032" BC (10.2)                                      | FEP (.107)                      | None/95% TC (6.7)                                  | FEP (.159)                             | .027                      | 53.5                      | 26.4                  | -70 to +200                                    | 1,400                              |
| RG-58/U Type Thin Ethernet Plenum       | 89907    | 6.79     | DEC P/N 17-01246-00     | 19/.0375" TC (8.8)                                     | FFEP (.095)                     | DBII/94% TC (5.8)                                  | FCP (.160)                             | .022                      | 50                        | 26.0                  | -20 to +150                                    | 300                                |
| <b>RG-59/U Type</b>                     |          |          |                         |                                                        |                                 |                                                    |                                        |                           |                           |                       |                                                |                                    |
| RG-59/U Type Plenum                     | 1151A    | 6.18     | Belden, IBM P/N 1501917 | 1/.032" CCS (26.0)                                     | FFEP (.140)                     | DF/52% TC<br>DF/34% TC (2.3)                       | FEP (.236)                             | .035                      | 75                        | 16.5                  | -70 to +200                                    | 300                                |
| RG-59/U Type                            | 1186A    | 6.17     | Belden                  | 1/.032" CCS (44.5)                                     | GIFPE (.144)                    | DBIV/67% AL<br>40% AL (7.0)                        | PVC (.265)                             | .025                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U Type                            | 1426A    | 6.37     | Belden                  | 1/.032" BC (10.0)                                      | GIFPE (.145)                    | None/95% BC (2.6)                                  | PVC (.242)                             | .038                      | 75                        | 16.3                  | -30 to +75                                     | 300                                |
| RG-59/U Type                            | 1505A    | 6.29     | Belden                  | 1/.032" BC (10.0)                                      | GIFPE (.145)                    | DF/95% BC (3.18)                                   | PVC (.234)                             | .036                      | 75                        | 16.3                  | -30 to +75                                     | 300                                |
| RG-59/U Type                            | 1505F    | 6.29     | Belden                  | 7/.011" BC (12.2)                                      | GIFPE (.145)                    | None/94% BC (2.4)<br>None/94% BC (2.4)             | PVC (.242)                             | .040                      | 75                        | 17.0                  | -20 to +60                                     | 300                                |
| RG-59/U Type Plenum                     | 1506A    | 6.42     | Belden                  | 1/.032" BC (10.0)                                      | FFEP (.133)                     | DF/95% TC (3.8)                                    | FLM (.199)                             | .033                      | 75                        | 16.0                  | 0 to +75                                       | 300                                |
| RG-59/U Type                            | 1830A    | 6.31     | Belden                  | 1/.032" CCS (44.5)                                     | GIFPE (.144)                    | DBII/40% AL (17.0)                                 | PVC (.237)                             | .021                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U Type Triaxial                   | 1856A    | 6.51     | Belden                  | 1/.032" BC (10.6)                                      | GIFPE (.145)                    | Inner None/95% BC (2.5)<br>Outer None/95% BC (1.6) | Inner PE (.216)<br>Outer BELFX (.360)  | .076                      | 75                        | 16.2                  | -50 to +80                                     | 300                                |
| RG-59/U Type Triax                      | 1856B    | 6.51     | Belden                  | 1/.032" BC (10.1)                                      | GIFPE (.145)                    | Inner None/95% BC (2.5)<br>Outer None/95% BC (1.6) | Inner PVC (.216)<br>Outer BELFX (.360) | .073                      | 75                        | 16.2                  | -35 to +75                                     | 300                                |
| RG-59/U Type Triaxial High-Flex Version | 1857A    | 6.50     | Belden                  | 19/.031" BC (14.0)                                     | GIFPE (.143)                    | Inner None/95% BC (2.5)<br>Outer None/90% BC (1.6) | Inner PE (.216)<br>Outer BELFX (.360)  | .076                      | 75                        | 17.0                  | -50 to +80                                     | 300                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.



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# RG Coaxial and Triaxial Reference Guide

## RG-59/U Type

| Cable Designation               | Part No.     | Page No. | Spec. Reference | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.)                       | Jacket Material<br>(OD in.)                | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>( $\Omega$ ) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|---------------------------------|--------------|----------|-----------------|--------------------------------------------------------|---------------------------------|----------------------------------------------------------------|--------------------------------------------|---------------------------|---------------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-59/U Type (continued)</b> |              |          |                 |                                                        |                                 |                                                                |                                            |                           |                           |                       |                                                |                                    |
| RG-59/U Type                    | <b>7721A</b> | 6.30     | Belden          | 1/.032" SPC<br>(10.1)                                  | GIFPE<br>(.145)                 | DBII/95% TC<br>(3.5)                                           | PVC<br>(.235 x .511)                       | .057                      | 75                        | 16.2                  | -0 to +80                                      | 300                                |
| RG-59/U Type                    | <b>8212</b>  | 6.37     | Belden          | 1/.032" CCS<br>(44.5)                                  | FPE<br>(.143)                   | None/95% BC<br>(2.6)                                           | PE<br>(.242)                               | .030                      | 75                        | 17.3                  | -55 to +80                                     | 300                                |
| RG-59/U Type                    | <b>8221</b>  | 6.36     | Belden          | 1/.0253" CCS<br>(55.0)                                 | FPE<br>(.146)                   | None/95% BC<br>(2.6)                                           | PVC<br>(.242)                              | .032                      | 80                        | 16.3                  | -40 to +75                                     | 300                                |
| RG-59/U Type Triaxial           | <b>8232</b>  | 6.50     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.145)                 | Inner<br>None/95% BC<br>(2.5)<br>Outer<br>None/80% BC<br>(2.8) | Inner PE<br>(.225)<br>Outer PE<br>(.315)   | .053                      | 75                        | 16.3                  | -55 to +80                                     | 300                                |
| RG-59/U Type Triaxial           | <b>8232A</b> | 6.50     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.145)                 | Inner<br>None/96% BC<br>(2.5)<br>Outer<br>None/80% BC<br>(2.8) | Inner PVC<br>(.226)<br>Outer PVC<br>(.315) | .065                      | 75                        | 16.3                  | 0 to +75                                       | 300                                |
| RG-59/U Type                    | <b>8241</b>  | 6.35     | Belden          | 1/.023" CCS<br>(47.0)                                  | PE<br>(.146)                    | None/95% BC<br>(2.6)                                           | PVC<br>(.241)                              | .036                      | 75                        | 20.5                  | -40 to +80                                     | 1,700                              |
| RG-59/U Type                    | <b>8241A</b> | 6.35     | Belden          | 1/.023" CCS<br>(47.0)                                  | FRSFPE<br>(.146)                | None/95% BC<br>(2.6)                                           | PVC<br>(.242)                              | .039                      | 75                        | 20.5                  | -40 to +80                                     | 300                                |
| RG-59/U Type                    | <b>8241B</b> | 6.35     | Belden          | 1/.0228" BC<br>(20.0)                                  | PE<br>(.146)                    | None/95% BC<br>(2.9)                                           | PVC<br>(.242)                              | .034                      | 75                        | 20.5                  | -40 to +80                                     | 1,700                              |
| RG-59/U Type                    | <b>8241F</b> | 6.35     | Belden          | 7/.030" BC<br>(15.0)                                   | FPE<br>(.146)                   | None/95% BC<br>(2.6)                                           | PVC-M<br>(.241)                            | .032                      | 75                        | 17.3                  | -30 to +60                                     | 300                                |
| RG-59B/U Type                   | <b>8263</b>  | 6.36     | MIL-C-17D       | 1/.023" CC<br>(47.0)                                   | PE<br>(.146)                    | None/95% BC<br>(2.6)                                           | PVC-NC<br>(.241)                           | .035                      | 75                        | 20.5                  | -40 to +60                                     | 1,700                              |
| RG-59/U Type Precision          | <b>8279</b>  | 6.41     | Belden          | 7/.023" BC<br>(19.1)                                   | PE<br>(.146)                    | None/95% TC<br>(4.5)                                           | PE<br>(.220)                               | .026                      | 75                        | 20.5                  | -55 to +80                                     | 2,300                              |
| RG-59/U Type Precision Video    | <b>8281</b>  | 6.30     | Belden          | 1/.032" BC<br>(9.9)                                    | PE<br>(.198)                    | None/97% TC<br>None/95% TC<br>(1.1)                            | PE<br>(.305)                               | .068                      | 75                        | 20.5                  | -55 to +80                                     | 2,900                              |
| RG-59/U Type Precision Video    | <b>8281B</b> | 6.30     | Belden          | 1/.032" BC<br>(9.9)                                    | FRSFPE<br>(.198)                | None/97% TC<br>None/95% TC<br>(1.1)                            | PVC<br>(.305)                              | .076                      | 75                        | 20.5                  | -40 to +80                                     | 300                                |
| RG-59/U Type Precision Video    | <b>8281F</b> | 6.30     | Belden          | 7/.0315" BC<br>(11.8)                                  | PE<br>(.193)                    | None/97% TC<br>None/95% TC<br>(1.7)                            | PVC-M<br>(.304)                            | .060                      | 75                        | 20.5                  | -20 to +60                                     | 2,900                              |
| RG-59/U Type                    | <b>9100</b>  | 6.16     | Belden          | 1/.032" CCS<br>(44.5)                                  | GIFPE<br>(.144)                 | DBII/40% AL<br>(17.0)                                          | PVC<br>(.237)                              | .020                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U Type                    | <b>9104</b>  | 6.17     | Belden          | 1/.032" CCS<br>(44.5)                                  | GIFPE<br>(.144)                 | DBII/67% AL<br>(12.0)                                          | PVC<br>(.237)                              | .022                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U Type                    | <b>9104N</b> | 6.17     | Belden          | 1/.032" CCS<br>(44.5)                                  | GIFPE<br>(.144)                 | DBII/67% AL<br>(12.0)                                          | PVC<br>(.237)                              | .022                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U Type Plenum             | <b>9104P</b> | 6.17     | Belden          | 1/.032" CCS<br>(44.5)                                  | FFEP<br>(.140)                  | DBII/67% AL<br>(12.0)                                          | FLM<br>(.203)                              | .020                      | 75                        | 16.3                  | -20 to +75                                     | 300                                |
| RG-59/U Type                    | <b>9110</b>  | 6.17     | Belden          | 1/.032" CCS<br>(44.5)                                  | GIFPE<br>(.144)                 | DBIII/67% AL<br>(11.0)                                         | PVC<br>(.242)                              | .022                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U Type Precision Video    | <b>9141</b>  | 6.43     | Belden          | 1/.032" BC<br>(9.9)                                    | PE<br>(.200)                    | None/97% TC<br>None/95% TC<br>(1.1)                            | PE<br>(.305)                               | .068                      | 75                        | 20.0                  | -55 to +80                                     | 2,900                              |
| RG-59/U Type                    | <b>9167</b>  | 6.29     | Belden          | 1/.032" SCCS<br>(25.8)                                 | GIFPE<br>(.144)                 | DB+/95% AL<br>(4.5)                                            | PVC<br>(.242)                              | .028                      | 75                        | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U QPL M17/29-RG59         | <b>9204</b>  | 6.75     | MIL-C-17G       | 1/.023" CCS<br>(47.0)                                  | PE<br>(.146)                    | None/95% BC<br>(2.6)                                           | PVC-NC<br>(.241)                           | .034                      | 75                        | 20.5                  | -40 to +85                                     | 1,700                              |
| RG-59/U Type Precision Video    | <b>9209</b>  | 6.41     | Belden          | 1/.02275" BC<br>(20.4)                                 | PE<br>(.146)                    | DF/95% TC<br>(4.5)                                             | PE<br>(.220)                               | .027                      | 75                        | 20.5                  | -55 to +80                                     | 2,300                              |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

# RG Coaxial and Triaxial Reference Guide

## RG-59/U and RG-62 Types

| Cable Designation                   | Part No.     | Page No. | Spec. Reference         | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.)                 | Jacket Material<br>(OD in.)          | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>(Ω) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|-------------------------------------|--------------|----------|-------------------------|--------------------------------------------------------|---------------------------------|----------------------------------------------------------|--------------------------------------|---------------------------|------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-59/U Type (continued)</b>     |              |          |                         |                                                        |                                 |                                                          |                                      |                           |                  |                       |                                                |                                    |
| RG-59/U Type Precision Video        | <b>9209A</b> | 6.41     | Belden                  | 1/.02275" BC (20.4)                                    | FRSFPE (.146)                   | DF/95% TC (4.5)                                          | PVC (.220)                           | .031                      | 75               | 20.5                  | -40 to +80                                     | 300                                |
| RG-59/U Type                        | <b>9224</b>  | 6.78     | Belden                  | 1/.025" BCCS (54.0)                                    | PE (.146)                       | None/93% BC (2.5)                                        | PVC (.242)                           | .038                      | 75               | 22.0                  | -40 to +75                                     | 1,900                              |
| RG-59/U Type Precision Video        | <b>9231</b>  | 6.42     | W/E 728B                | 1/.031" BC (9.9)                                       | PE (.198)                       | None/97% TC<br>None/95% TC (1.1)                         | PVC-NC (.305)                        | .071                      | 75               | 20.5                  | -40 to +80                                     | 2,900                              |
| RG-59/U Type                        | <b>9240</b>  | 6.37     | Belden                  | 1/.032" CCS (61.5)                                     | FPE (.143)                      | None/80% BC (5.6)                                        | PVC (.241)                           | .028                      | 75               | 17.3                  | -40 to +75                                     | 300                                |
| RG-59/U Type                        | <b>9244</b>  | 6.36     | Belden                  | 1/.0253" CCS (50.0)                                    | PE (.146)                       | None/85% BC (4.5)                                        | PVC (.242)                           | .034                      | 75               | 19.4                  | -40 to +80                                     | 1,700                              |
| RG-59/U Type                        | <b>9259</b>  | 6.36     | Belden                  | 7/.030" BC (15.0)                                      | FPE (.146)                      | None/95% BC (2.6)                                        | PVC (.242)                           | .033                      | 75               | 17.3                  | -40 to +80                                     | 300                                |
| RG-59/U Type Triaxial               | <b>9267</b>  | 6.51     | Belden                  | 1/.033" BC (10.1)                                      | GIFPE (.146)                    | Inner<br>None/95% BC (2.5)<br>Outer<br>None/80% BC (2.6) | Inner PE (.216)<br>Outer H (.360)    | .079                      | 75               | 17.3                  | -20 to +80                                     | 300                                |
| RG-59/U Type                        | <b>9274</b>  | 6.37     | Belden                  | 1/.032" CCS (44.5)                                     | FPE (.143)                      | None/95% BC (2.6)                                        | PVC (.240)                           | .030                      | 75               | 17.3                  | -40 to +80                                     | 300                                |
| RG-59/U Type                        | <b>9275</b>  | 6.16     | Belden                  | 1/.032" CCS (44.5)                                     | GIFPE (.144)                    | DF/40% AL (17.0)                                         | PVC (.237)                           | .023                      | 75               | 16.2                  | -40 to +80                                     | 300                                |
| RG-59/U Type Dual                   | <b>9555</b>  | 6.80     | Belden                  | 1/.023" CCS (50.0)                                     | FRSFPE (.146)                   | None/95% BC (2.6)                                        | PVC (.238 x .478)                    | .075                      | 75               | 20.5                  | -40 to +80                                     | 1,700                              |
| RG-59/U Type                        | <b>9659</b>  | 6.36     | Belden                  | 7/.030" BC (15.0)                                      | FPE (.146)                      | None/95% BC (2.6)                                        | PVC-NC (.242)                        | .033                      | 75               | 17.3                  | -40 to +80                                     | 300                                |
| RG-59/U Type Plenum                 | <b>82108</b> | 6.18     | Belden                  | 1/.032" CCS (26.0)                                     | FFEP (.140)                     | DF/96% TC (2.6)                                          | FLM (.202)                           | .039                      | 75               | 16.5                  | -20 to +75                                     | 300                                |
| RG-59/U Type Plenum                 | <b>82241</b> | 6.35     | Belden                  | 1/.023" CCS (52.0)                                     | FEP (.134)                      | None/97% BC (2.6)                                        | FLM (.193)                           | .035                      | 75               | 19.5                  | -20 to +75                                     | 1,700                              |
| RG-59/U Type Plenum                 | <b>82259</b> | 6.36     | Belden                  | 7/.030" BC (15.0)                                      | FFEP (.135)                     | None/95% BC (2.6)                                        | FLM (.193)                           | .030                      | 75               | 17.3                  | -20 to +75                                     | 300                                |
| RG-59/U Type Plenum                 | <b>88241</b> | 6.35     | Belden                  | 1/.023" CCS (52.0)                                     | FEP (.134)                      | None/97% BC (2.6)                                        | FEP (.193)                           | .037                      | 75               | 19.5                  | -70 to +200                                    | 1,700                              |
| RG-59/U Type Plenum Triax           | <b>88232</b> | 6.50     | Belden                  | 1/.032" BC (34.5)                                      | FFEP (.140)                     | Inner<br>None/95% BC (2.6)<br>None/95% BC (2.6)          | Inner FEP (.188)<br>Outer FEP (.246) | .058                      | 75               | 16.7                  | -70 to +200                                    | 300                                |
| RG-59/U Type Precision Video Plenum | <b>88281</b> | 6.43     | Belden                  | 1/.032" BC (9.9)                                       | FEP (.185)                      | None/98% TC<br>None/96% TC (1.1)                         | FCP (.271)                           | .082                      | 75               | 19.5                  | -20 to +150                                    | 2,900                              |
| RG-59/U Type Plenum                 | <b>89108</b> | 6.18     | Belden                  | 1/.032" CCS (26.0)                                     | FFEP (.140)                     | DF/96% TC (2.6)                                          | FEP (.203)                           | .035                      | 75               | 16.5                  | -70 to +200                                    | 300                                |
| RG-59/U Type Plenum                 | <b>89259</b> | 6.36     | Belden                  | 7/.030" BC (15.0)                                      | FFEP (.135)                     | None/95% BC (2.6)                                        | FEP (.193)                           | .033                      | 75               | 17.3                  | -70 to +200                                    | 300                                |
| RG-59/U Type Dual Plenum            | <b>89555</b> | 6.80     | Belden                  | 1/.023" CCS (50.0)                                     | FEP (.134)                      | None/95% BC (2.6)                                        | FEP (.212 x .424)                    | .086                      | 75               | 19.5                  | -70 to +200                                    | 1,700                              |
| <b>RG-62 Type</b>                   |              |          |                         |                                                        |                                 |                                                          |                                      |                           |                  |                       |                                                |                                    |
| RG-62/U Type                        | <b>8254</b>  | 6.81     | JAN-C-17A               | 1/.0253" CCS (41.2)                                    | SSPE (.146)                     | None/95% BC (2.9)                                        | PVC (.238)                           | .032                      | 93               | 13.5                  | -40 to +80                                     | 750                                |
| RG-62B/U Type                       | <b>8255</b>  | 6.81     | MIL-C-17D               | 7/.024" CCS (59.0)                                     | SSPE (.146)                     | None/95% BC (2.9)                                        | PVC-NC (.242)                        | .032                      | 93               | 13.5                  | -40 to +80                                     | 750                                |
| RG-62A/U Type                       | <b>9228</b>  | 6.81     | Belden                  | 1/.0253" CCS (41.2)                                    | SSPE (.146)                     | None/95% BC (2.9)                                        | HDPE (.242)                          | .033                      | 93               | 13.5                  | -55 to +80                                     | 750                                |
| RG-62A/U Type                       | <b>9268</b>  | 6.81     | Belden, IBM P/N 5252750 | 1/.0253" CCS (41.2)                                    | SSPE (.146)                     | None/95% BC (2.9)                                        | PVC (.260)                           | .037                      | 93               | 13.5                  | -40 to +80                                     | 750                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.



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# RG Coaxial and Triaxial Reference Guide

## RG-62 and Other Misc. RG Types

| Cable Designation             | Part No. | Page No. | Spec. Reference          | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.) | Jacket Material<br>(OD in.) | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>(Ω) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|-------------------------------|----------|----------|--------------------------|--------------------------------------------------------|---------------------------------|------------------------------------------|-----------------------------|---------------------------|------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>RG-62 Type (continued)</b> |          |          |                          |                                                        |                                 |                                          |                             |                           |                  |                       |                                                |                                    |
| RG62A/U Type                  | 9269     | 6.81     | Belden, IBM P/N 323921   | 1/.0253" CCS (41.2)                                    | SSPE (.146)                     | None/95% BC (2.9)                        | PVC (.239)                  | .034                      | 93               | 13.5                  | -40 to +80                                     | 750                                |
| RG-62/U QPL M17/30-RG62       | 9862     | 6.76     | MIL-C-17G                | 1/.0263" CCS (41.2)                                    | SSPE (.146)                     | None/95% BC (2.9)                        | PVC-NC (.242)               | .033                      | 93               | 13.5                  | -40 to +80                                     | 750                                |
| RG-62/U Type Plenum           | 82262    | 6.82     | Belden                   | 1/.025" CCS (41.2)                                     | FFEP (.146)                     | None/94% BC (3.4)                        | FLM (.204)                  | .030                      | 93               | 12.8                  | -20 to +75                                     | 300                                |
| RG-62/U Type Plenum           | 82269    | 6.82     | Belden                   | 1/.025" CCS (41.2)                                     | SSFEP (.142)                    | None/94% BC (3.4)                        | FLM (.200)                  | .030                      | 93               | 12.8                  | -20 to +75                                     | 300                                |
| RG-62U Type Plenum            | 86262    | 6.82     | Belden, IBM P/N4885584II | 1/.025" CCS (41.2)                                     | FFEP (.146)                     | None/94% BC (3.4)                        | FEP (.204)                  | .032                      | 93               | 12.8                  | -70 to +200                                    | 300                                |
| RG-62/U Type Plenum           | 87269    | 6.82     | Belden                   | 1/.025" CCS (41.2)                                     | SSFEP (.142)                    | None/94% BC (3.4)                        | FCP (.200)                  | .031                      | 93               | 12.8                  | -20 to +150                                    | 300                                |
| RG-62/U Type Plenum           | 89269    | 6.82     | Belden, IBM P/N4885584I  | 1/.025" CCS (41.2)                                     | SSFEP (.142)                    | None/94% BC (3.4)                        | FEP (.200)                  | .033                      | 93               | 12.8                  | -70 to +200                                    | 300                                |
| <b>Other Misc. RG Types</b>   |          |          |                          |                                                        |                                 |                                          |                             |                           |                  |                       |                                                |                                    |
| RG-63/U QPL M17/31-RG63       | 9857     | 6.76     | MIL-C-17G                | 1/.0253" CCS (41.2)                                    | SSPE (.285)                     | None/97% BC (1.2)                        | PVC-NC (.405)               | .087                      | 125              | 9.7                   | -40 to +80                                     | 750                                |
| RG-71/U QPL M17/90-RG71       | 9169     | 6.76     | MIL-C-17G                | 1/.0253" CCS (41.2)                                    | SSPE (.146)                     | None/95% BC<br>None/94% TC (1.5)         | PE (.245)                   | .046                      | 93               | 13.5                  | -55 to +85                                     | 750                                |
| RG-122/U QPL M17/157-00001    | 9252     | 6.72     | MIL-C-17G                | 27/.030" TC (17.1)                                     | PE (.096)                       | None/95% TC (5.2)                        | PVC-NC (.160)               | .017                      | 50               | 30.8                  | -40 to +85                                     | 1,400                              |
| RG-142B/U QPL M17/158-00001   | 83242    | 6.73     | MIL-C-17G                | 1/.037" SCCS (19.3)                                    | TFE (.116)                      | None/96% SC<br>None/95% SC (2.3)         | FEP (.195)                  | .043                      | 50               | 29.0                  | -70 to +200                                    | 1,400                              |
| RG-142/U QPL M17/60-RG142     | 84142    | 6.73     | MIL-C-17G                | 1/.037" SCCS (19.3)                                    | TFE (.116) (2.3)                | None/96% SC<br>None/95% SC               | FEP (.195)                  | .043                      | 50               | 29.2                  | -70 to +200                                    | 1,400                              |
| RG-174/U Type RF100           | 7805     | 6.57     | Belden                   | 1/.018" BC (32.0)                                      | PE (.061)                       | DF/90% TC (9.1)                          | PVC (.110)                  | .010                      | 50               | 31.2                  | -40 to +80                                     | 1100                               |
| RG-174/U Type RF 100 Low Loss | 7805R    | 6.57     | Belden                   | 1/.0195" BC (27.3)                                     | FPE (.060)                      | DF/90% TC (9.4)                          | PVC (.110)                  | .010                      | 50               | 26.2                  | -40 to +80                                     | 300                                |
| RG-174/U Type                 | 8216     | 6.63     | MIL-C-17F                | 7/.019" CCS (97.0)                                     | PE (.060)                       | None/90% TC (10.7)                       | PVC (.110)                  | .008                      | 50               | 30.8                  | -40 to +75                                     | 1,100                              |
| RG-174/U Type                 | 9239     | 6.78     | Belden                   | 7/.019" BCCS (97.0)                                    | PE (.044)                       | None/90% TC (14.0)                       | PVC (.101)                  | .008                      | 50               | 38.0                  | -40 to +60                                     | 1,100                              |
| RG-178B/U QPL M17/169-00001   | 83265    | 6.72     | MIL-C-17G                | 7/.012" SCCS (244.0)                                   | TFE (.033)                      | None/95% SC (14.6)                       | FEP (.071)                  | .005                      | 50               | 29.0                  | -70 to +200                                    | 750                                |
| RG-179/U QPL M17/94-RG179     | 83264    | 6.75     | MIL-C-17G                | 7/.012" SCCS (244.0)                                   | TFE (.062)                      | None/95% SC (8.5)                        | FEP (.100)                  | .010                      | 75               | 19.5                  | -70 to +200                                    | 900                                |
| RG-180/U QPL M17/95-RG 180    | 83266    | 6.76     | MIL-C-17G                | 7/.012" SCCS (344.0)                                   | TFE (.102)                      | None/91% SC (6.5)                        | FEP (.141)                  | .018                      | 95               | 15.0                  | -70 to +200                                    | 1,100                              |
| RG-187A/U Type                | 83267    | 6.80     | MIL-C-17D                | 7/.012" SCCS (258.0)                                   | TFE (.063)                      | None/95% SC (8.5)                        | TFE-T (.111)                | .010                      | 75               | 19.5                  | -70 to +200                                    | 900                                |
| RG-188A/U Type                | 83269    | 6.63     | MIL-C-17D                | 7/.020" SCCS (91.2)                                    | TFE (.058)                      | None/96% SC (8.5)                        | TFE-T (.108)                | .011                      | 50               | 29.0                  | -70 to +200                                    | 900                                |
| RG-212/U QPL M17/162-00001    | 9861     | 6.74     | MIL-C-17G                | 1/.0556" SC (3.3)                                      | PE (.185)                       | None/95% SC<br>None/95% SC (1.1)         | PVC-NC (.332)               | .081                      | 50               | 30.8                  | -40 to +80                                     | 2,200                              |
| RG-213/U QPL M17/163-00001    | 8267     | 6.74     | MIL-C-17G                | 7/.089" BC (1.7)                                       | PE (.285)                       | None/97% BC (1.2)                        | PVC-NC (.405)               | .102                      | 50               | 30.8                  | -40 to +80                                     | 3,700                              |
| RG-214/U QPL M17/164-00001    | 8268     | 6.74     | MIL-C-17G                | 7/.089" SC (1.7)                                       | PE (.285)                       | None/95% SC<br>None/97% SC (.7)          | PVC-NC (.425)               | .128                      | 50               | 30.8                  | -40 to +80                                     | 3,700                              |
| RG-216/U QPL M17/77-RG216     | 9850     | 6.75     | MIL-C-17G                | 7/.048" TC (6.1)                                       | PE (.185)                       | None/95% BC<br>None/95% BC (.8)          | PVC-NC (.425)               | .122                      | 75               | 20.5                  | -40 to +80                                     | 3,700                              |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

## RG Coaxial and Triaxial Reference Guide

### Misc. RG Types, Miniature and Bundled Coax

| Cable Designation                                  | Part No.     | Page No. | Spec. Reference | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type Tape/Braid<br>(DCR/1000 Ft.) | Jacket Material<br>(OD in.) | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>( $\Omega$ ) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS) Non UL |
|----------------------------------------------------|--------------|----------|-----------------|--------------------------------------------------------|---------------------------------|------------------------------------------|-----------------------------|---------------------------|---------------------------|-----------------------|------------------------------------------------|------------------------------------|
| <b>Other Misc. RG Types</b> (continued)            |              |          |                 |                                                        |                                 |                                          |                             |                           |                           |                       |                                                |                                    |
| RG-223/U QPL<br>M17/167-00001                      | <b>9273</b>  | 6.73     | MIL-C-17G       | 1/.034" SC<br>(8.8)                                    | PE<br>(.117)                    | None/95% SC<br>None/95% SC (2.5)         | PVC-NC<br>(.212)            | .036                      | 50                        | 30.8                  | -40 to +60                                     | 1,700                              |
| RG-303/U QPL<br>M17/111-RG303                      | <b>84303</b> | 6.73     | MIL-C-17G       | 1/.037" SCCS<br>(16.3)                                 | TFE<br>(.116)                   | None/95% SC<br>(4.3)                     | FEP<br>(.170)               | .030                      | 50                        | 29.0                  | -70 to +200                                    | 1,400                              |
| RG-316/U QPL<br>M17/172-00001                      | <b>83284</b> | 6.72     | MIL-C-17G       | 7/.020" SCCS<br>(84.1)                                 | TFE<br>(.058)                   | None/96.5% SC<br>(6.5)                   | FEP<br>(.098)               | .010                      | 50                        | 29.0                  | -70 to +200                                    | 900                                |
| RG-316/U QPL<br>M17/113-RG316                      | <b>84316</b> | 6.72     | MIL-C-17G       | 7/.020" SCCS<br>(84.1)                                 | TFE<br>(.058)                   | None/95% SC<br>(6.5)                     | FEP<br>(.098)               | .010                      | 50                        | 29.2                  | -70 to +200                                    | 900                                |
| <b>Miniature Coax</b>                              |              |          |                 |                                                        |                                 |                                          |                             |                           |                           |                       |                                                |                                    |
| Miniature Coax                                     | <b>8218</b>  | 6.34     | Belden          | 7/.017" CCS<br>(120.0)                                 | PE<br>(.100)                    | None/93% TC<br>(6.5)                     | PVC<br>(.150)               | .014                      | 75                        | 20.5                  | -40 to +60                                     | 1700                               |
| Miniature Coax                                     | <b>8700</b>  | 6.78     | Belden          | 1/.013" TC<br>(66.9)                                   | PP<br>(.023)                    | None/90% BC<br>(28.7)                    | PVC<br>(.054)               | .003                      | 32                        | 55.2                  | -30 to +105                                    | 300                                |
| Miniature Coax                                     | <b>9221</b>  | 6.34     | Belden          | 7/.012" TC<br>(100.0)                                  | FPE<br>(.058)                   | None/89% TC<br>(11.7)                    | PVC<br>(.097)               | .006                      | 75                        | 17.3                  | -40 to +60                                     | 30                                 |
| Miniature<br>RG-59/U Type                          | <b>1855A</b> | 6.40     | Belden          | 1/.023" BC<br>(20.1)                                   | GIFPE<br>(.102)                 | DF/95% TC<br>(7.6)                       | PVC<br>(.159)               | .018                      | 75                        | 16.5                  | -40 to +75                                     | 300                                |
| Miniature<br>RG-59/U Type                          | <b>1865A</b> | 6.40     | Belden          | 19/.021" BC<br>(27.4)                                  | GIFPE<br>(.094)                 | DF/95% TC<br>(5.4)                       | PVC<br>(.150)               | .014                      | 75                        | 16.5                  | -40 to +80                                     | 300                                |
| <b>Bundled Coax</b>                                |              |          |                 |                                                        |                                 |                                          |                             |                           |                           |                       |                                                |                                    |
| Bundled Coax<br>RG-59 Type Plenum<br>RGB 3-Coaxial | <b>1824A</b> | 6.48     | Belden          | 7/.030" BC<br>(15.3)                                   | FFEP<br>(.135)                  | DF/95% TC<br>(2.5)                       | FLM<br>(.475)               | .099                      | 75                        | 17.3                  | 0 to +75                                       | 300                                |
| Bundled Coax<br>RG-59 Type Plenum<br>RGB 4-Coaxial | <b>1825A</b> | 6.48     | Belden          | 7/.030" BC<br>(15.3)                                   | FFEP<br>(.135)                  | DF/95% TC<br>(2.5)                       | FLM<br>(.527)               | .132                      | 75                        | 16.5                  | 0 to +60                                       | 300                                |
| Bundled Coax<br>RG-59 Type Plenum<br>RGB 5-Coaxial | <b>1826A</b> | 6.48     | Belden          | 7/.030" BC<br>(15.3)                                   | FFEP<br>(.135)                  | DF/95% TC<br>(2.5)                       | FLM<br>(.585)               | .165                      | 75                        | 16.5                  | 0 to +60                                       | 300                                |
| Bundled Coax<br>Sub-Miniature<br>RGB 3-Coaxial     | <b>1520A</b> | 6.47     | Belden          | 7/.012" TC<br>(103.2)                                  | FPE<br>(.056)                   | DF/90% TC<br>(9.5)                       | PVC<br>(.283)               | .042                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Sub-Miniature<br>RGB 4-Coaxial     | <b>1521A</b> | 6.47     | Belden          | 7/.012" TC<br>(103.2)                                  | FPE<br>(.056)                   | DF/90% TC<br>(9.5)                       | PVC<br>(.310)               | .050                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Sub-Miniature<br>RGB 5-Coaxial     | <b>1522A</b> | 6.47     | Belden          | 7/.012" TC<br>(103.2)                                  | FPE<br>(.056)                   | DF/90% TC<br>(9.5)                       | PVC<br>(.338)               | .058                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Miniature<br>RGB 3-Coaxial         | <b>1406B</b> | 6.47     | Belden          | 7/.019" BC<br>(71.5)                                   | FPE<br>(.090)                   | DF/93% TC<br>(8.6)                       | PVC<br>(.388)               | .064                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Miniature<br>RGB 4-Coaxial         | <b>1407B</b> | 6.47     | Belden          | 7/.019" BC<br>(37.3)                                   | FPE<br>(.090)                   | DF/93% TC<br>(8.6)                       | PVC<br>(.455)               | .088                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Miniature<br>RGB 5-Coaxial         | <b>1417B</b> | 6.47     | Belden          | 7/.019" BC<br>(37.3)                                   | FPE<br>(.090)                   | DF/93% TC<br>(8.6)                       | PVC<br>(.477)               | .102                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Miniature<br>RGB 3-Coaxial         | <b>1164B</b> | 6.48     | Belden          | 7/.019" BC<br>(37.3)                                   | FPE<br>(.090)                   | DF/93% TC<br>(8.6)                       | PVC<br>(.388)               | .066                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Miniature<br>RGB 4-Coaxial         | <b>1167B</b> | 6.48     | Belden          | 7/.019" BC<br>(37.3)                                   | FPE<br>(.090)                   | DF/93% TC<br>(8.6)                       | PVC<br>(.455)               | .090                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled Coax<br>Miniature<br>RGB 5-Coaxial         | <b>1418B</b> | 6.48     | Belden          | 7/.019" BC<br>(37.3)                                   | FPE<br>(.090)                   | DF/93% TC<br>(8.6)                       | PVC<br>(.477)               | .104                      | 75                        | 17.3                  | -40 to +60                                     | 300                                |
| Bundled SDI Coax<br>3-Coaxial<br>RG-6 Type         | <b>7710A</b> | 6.46     | Belden          | 1/.040" BC<br>(6.4)                                    | GIFPE<br>(.180)                 | DF/95% TC<br>(2.8)                       | PVC-M<br>(.770)             | .234                      | 75                        | 16.2                  | -40 to +60                                     | 300                                |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.



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# RG Coaxial and Triaxial Reference Guide

## Bundled and SVHS Coax

| Cable Designation                                   | Part No. | Page No. | Spec. Reference | Conductor Stranding/<br>Dia. & Type*<br>(DCR/1000 Ft.) | Insulation Material<br>(OD in.) | Shield Type<br>Tape/Braid<br>(DCR/1000 Ft.) | Jacket Material<br>(OD in.) | Nom. Weight<br>(Lbs./Ft.) | Nom. Imp.<br>(Ω) | Nom. Cap.<br>(pF/Ft.) | Suggested Operating<br>Temp. Range<br>(°C) Non UL | Max. Oper. Voltage<br>(RMS)<br>Non UL |
|-----------------------------------------------------|----------|----------|-----------------|--------------------------------------------------------|---------------------------------|---------------------------------------------|-----------------------------|---------------------------|------------------|-----------------------|---------------------------------------------------|---------------------------------------|
| <b>Bundled Coax</b> (continued)                     |          |          |                 |                                                        |                                 |                                             |                             |                           |                  |                       |                                                   |                                       |
| Bundled SDI Coax<br>4-Coaxial<br>RG-6 Type          | 7711A    | 6.46     | Belden          | 1/.040" BC<br>(6.4)                                    | GIFPE<br>(.180)                 | DF/95% TC<br>(2.8)                          | PVC-M<br>(.843)             | .303                      | 75               | 16.2                  | -40 to +60                                        | 300                                   |
| Bundled SDI Coax<br>5-Coaxial<br>RG-6 Type          | 7712A    | 6.46     | Belden          | 1/.040" BC<br>(6.4)                                    | GIFPE<br>(.180)                 | DF/95% TC<br>(2.8)                          | PVC-M<br>(.942)             | .371                      | 75               | 16.2                  | -40 to +60                                        | 300                                   |
| Bundled SDI Coax<br>10-Coaxial<br>RG-6 Type         | 7713A    | 6.46     | Belden          | 1/.040" BC<br>(6.4)                                    | GIFPE<br>(.180)                 | DF/95% TC<br>(2.8)                          | PVC-M<br>(1.386)            | .772                      | 75               | 16.2                  | -40 to +60                                        | 300                                   |
| RG-59/U Type<br>Bundled 3-Coax<br>(Miniature)       | 7787A    | 6.45     | Belden          | 1/.023" BC<br>(20.1)                                   | GIFPE<br>(.102)                 | DF/95% TC<br>(7.6)                          | PVC<br>(.432)               | .081                      | 75               | 16.5                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 4-Coax<br>(Miniature)       | 7788A    | 6.45     | Belden          | 1/.023" BC<br>(20.1)                                   | GIFPE<br>(.102)                 | DF/95% TC<br>(7.6)                          | PVC<br>(.481)               | .106                      | 75               | 16.5                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 5-Coax<br>(Miniature)       | 7789A    | 6.45     | Belden          | 1/.023" BC<br>(20.1)                                   | GIFPE<br>(.102)                 | DF/95% TC<br>(7.6)                          | PVC<br>(.539)               | .133                      | 75               | 16.5                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 6-Coax<br>(Miniature)       | 7790A    | 6.45     | Belden          | 1/.023" BC<br>(20.1)                                   | GIFPE<br>(.102)                 | DF/95% TC<br>(7.6)                          | PVC<br>(.597)               | .163                      | 75               | 16.5                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 12-Coax<br>(Miniature)      | 7791A    | 6.45     | Belden          | 1/.023" BC<br>(20.1)                                   | GIFPE<br>(.102)                 | DF/95% TC<br>(7.6)                          | PVC<br>(.796)               | .280                      | 75               | 16.5                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 12-Coax<br>(Miniature)      | 7792A    | 6.45     | Belden          | 1/.023" BC<br>(20.1)                                   | GIFPE<br>(.102)                 | DF/95% TC<br>(7.6)                          | PVC<br>(.825)               | .336                      | 75               | 16.5                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 3-Coax                      | 7794A    | 6.45     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.145)                 | DF/95% TC<br>(3.8)                          | PVC<br>(.631)               | .084                      | 75               | 16.3                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 4-Coax                      | 7795A    | 6.45     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.145)                 | DF/95% TC<br>(3.8)                          | PVC<br>(.706)               | .190                      | 75               | 16.3                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 5-Coax                      | 7796A    | 6.45     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.145)                 | DF/95% TC<br>(3.8)                          | PVC<br>(.790)               | .238                      | 75               | 16.3                  | -35 to +75                                        | 300                                   |
| RG-59/U Type<br>Bundled 10-Coax                     | 7798A    | 6.45     | Belden          | 1/.032" BC<br>(10.0)                                   | GIFPE<br>(.145)                 | DF/95% TC<br>(3.8)                          | PVC<br>(1.160)              | .501                      | 75               | 16.3                  | -35 to +75                                        | 300                                   |
| <b>SVHS Coax</b>                                    |          |          |                 |                                                        |                                 |                                             |                             |                           |                  |                       |                                                   |                                       |
| Parallel Coax<br>SVHS 2-Coaxial<br>Plenum           | 7700A    | 6.49     | Belden          | 7/.012" TC<br>(91.5)                                   | FFEP<br>(.053)                  | None/98% TC<br>(7.4)                        | FLM<br>(.107 x .214)        | .017                      | 75               | 17.3                  | -20 to +60                                        | 300                                   |
| Parallel Coax<br>SVHS 2-Coaxial<br>High-Flex Design | 1807A    | 6.49     | Belden          | 7/.012" TC<br>(85.2)                                   | FPE<br>(.056)                   | None/90% TC<br>(7.5)                        | PVC<br>(.110 x .230)        | .013                      | 75               | 17.3                  | -40 to +60                                        | 300                                   |
| Round SVHS<br>2-Coaxial<br>High-Flex Design         | 1808A    | 6.49     | Belden          | 7/.012" TC<br>(85.2)                                   | FPE<br>(.056)                   | None/90% TC<br>(7.5)                        | PVC<br>(.254)               | .031                      | 75               | 17.3                  | -40 to +60                                        | 300                                   |

\*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

### Conductor Abbreviations

BC = Bare Copper  
BCCA = Bare Copper-covered Aluminum  
CCS = Copper-clad Steel  
SC = Silver-coated copper  
SCA = Silver-coated Alloy  
SCCS = Silver-coated Copper-covered Steel  
SPC = Silver-plated Copper  
TC = Tinned Copper

### Braid Abbreviations

AL = Aluminum  
BC = Bare Copper  
CT = Copper-Tin Composite  
SC = Silver-coated copper  
SPC = Silver-plated Copper  
TC = Tinned Copper

### Tape Abbreviations

BF = Beldfoil®  
DB = Duobond®  
DBII = Duobond II  
DBIII = Duobond III  
DBIV = Duobond IV  
DB+ = Duobond Plus®  
DF = Duofoil®  
F = Foil

### Insulation Abbreviations

FEP = Fluorinated Ethylene Propylene  
FFEP = Foam FEP  
FPE = Foam Polyethylene  
FRSPE = Flame-retardant Semi-foam Polyethylene  
GIFPE = Gas-injected Foam Polyethylene  
PE = Solid Polyethylene  
PP = Solid Polypropylene  
SSPE = Semi-solid FEP  
SSPE = Semi-solid Polyethylene  
TFE = Tetrafluoroethylene

### Jacket Abbreviations

BELFX = Belflex®  
FCP = Fluorocopolymer  
FEP = Fluorinated Ethylene Propylene  
FG = Fiberglass  
FLM = Flammarrest®  
H = Hypalon®  
HDPE = High-density Polyethylene  
PE = Polyethylene  
PVC = Polyvinyl Chloride  
PVC-M = Matte finish Polyvinyl Chloride  
PVC-NC = Non-contaminating Polyvinyl Chloride  
TFE-T = Tetrafluoroethylene Tape Wrap

Hypalon is a DuPont trademark.

For information on coaxial cables not listed in this table, or for a comprehensive Connector Cross-Reference, please contact Belden Electronics Division, Technical Support at: **1-800-BELDEN-1**.

## Broadband Coax

### MATV Cables

#### Series 59

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 59 • 20 AWG Solid .032" Bare Copper-covered Steel • Foil + Braid Shield

##### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|                                                                                  |             |         |          |         |      |      |           |      |      |          |      |      |    |     |      |      |                                |  |  |
|----------------------------------------------------------------------------------|-------------|---------|----------|---------|------|------|-----------|------|------|----------|------|------|----|-----|------|------|--------------------------------|--|--|
| 80°C                                                                             | <b>9275</b> | NEC:    | U-500    | U-152.4 | 12.0 | 5.5  | 20 AWG    | .144 | 3.66 | Duofoil® | .237 | 6.02 | 75 | 83% | 16.2 | 53.1 | See Chart on page 6.88         |  |  |
|  |             | CATV CM | 500      | 152.4   | 12.5 | 5.7  | (solid)   |      |      | + 40%    |      |      |    |     |      |      |                                |  |  |
|                                                                                  |             | CEC:    | U-1000 ▲ | U-304.8 | 24.0 | 10.9 | .032"     |      |      | Aluminum |      |      |    |     |      |      | Sweep tested 5 MHz to 550 MHz. |  |  |
|                                                                                  |             | CM      | 1000     | 304.8   | 24.0 | 10.9 | BCCS      |      |      | Braid    |      |      |    |     |      |      |                                |  |  |
|                                                                                  |             |         |          |         |      |      | 44.5Ω/M'  |      |      | 17.0Ω/M' |      |      |    |     |      |      |                                |  |  |
|                                                                                  |             |         |          |         |      |      | 146.0Ω/km |      |      | 55.8Ω/km |      |      |    |     |      |      |                                |  |  |

\*U-1000 ft. put-up also available in White.

|                                                                                  |             |         |          |         |      |      |           |      |      |             |      |      |    |     |      |      |                              |  |  |
|----------------------------------------------------------------------------------|-------------|---------|----------|---------|------|------|-----------|------|------|-------------|------|------|----|-----|------|------|------------------------------|--|--|
| 80°C                                                                             | <b>9100</b> | NEC:    | U-500    | U-152.4 | 12.0 | 5.5  | 20 AWG    | .144 | 3.66 | Duobond® II | .237 | 6.02 | 75 | 83% | 16.2 | 53.1 | See Chart on page 6.88       |  |  |
|  |             | CATV CM | U-1000 ▲ | U-304.8 | 24.0 | 10.9 | (solid)   |      |      | + 40%       |      |      |    |     |      |      |                              |  |  |
|                                                                                  |             | CEC:    | 1000     | 304.8   | 24.0 | 10.9 | .032"     |      |      | Aluminum    |      |      |    |     |      |      | Sweep tested 5 MHz to 1 GHz. |  |  |
|                                                                                  |             | CM      |          |         |      |      | BCCS      |      |      | Braid       |      |      |    |     |      |      |                              |  |  |
|                                                                                  |             |         |          |         |      |      | 44.5Ω/M'  |      |      | 17.0Ω/M'    |      |      |    |     |      |      |                              |  |  |
|                                                                                  |             |         |          |         |      |      | 146.0Ω/km |      |      | 55.8Ω/km    |      |      |    |     |      |      |                              |  |  |

\*U-1000 ft. put-up also available in White.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance



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## Broadband Coax

### CATV Cables

#### Series 59

| Description                                                                                           | Part No.                           | UL NEC/<br>C(UL) CEC<br>Type        | Standard Lengths |                  | Standard Unit Weight |              | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR            | Nominal Core OD |      | Shielding<br>Materials<br>Nom. DCR                                      | Nominal OD |      | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation                                      |                                                           |                                                                  |
|-------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|------------------|------------------|----------------------|--------------|-------------------------------------------------------------|-----------------|------|-------------------------------------------------------------------------|------------|------|------------------|-----------------------|---------------------|------|----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------|
|                                                                                                       |                                    |                                     | Ft.              | m                | Lbs.                 | kg           |                                                             | Inch            | mm   |                                                                         | Inch       | mm   |                  |                       | pF/Ft.              | pF/m | MHz                                                      | dB/<br>100 Ft.                                            | dB/<br>100m                                                      |
| <b>Series 59 • 20 AWG Solid .032" Bare Copper-covered Steel • Duobond® + Aluminum Braid(s) Shield</b> |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| <b>Gas-injected Foam Polyethylene Insulation • Black PVC Jacket</b>                                   |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| 80°C                                                                                                  | <b>9104</b>                        | NEC:<br>CATV CM<br>CEC:<br>CM       | U-1000★<br>1000★ | U-304.8<br>304.8 | 25.0<br>25.0         | 11.4<br>11.4 | 20 AWG<br>(solid)<br>.032"<br>BCCS<br>44.5Ω/M'<br>146.0Ω/km | .144            | 3.66 | Duobond II<br>+ 67%<br>Aluminum<br>Braid<br>12.0Ω/M'<br>39.4Ω/km        | .237       | 6.02 | 75               | 83%                   | 16.2                | 53.1 | See Chart<br>on page 6.88                                |                                                           |                                                                  |
| Sweep tested 5 MHz to 1 GHz.                                                                          |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| ★1000 ft. and U-1000 ft. put-ups also available in Beige and White.                                   |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| 80°C                                                                                                  | <b>9104N</b><br><small>new</small> |                                     | 1000★            | 304.8            | 25.0                 | 11.4         | 20 AWG<br>(solid)<br>.032"<br>BCCS<br>44.5Ω/M'<br>146.0Ω/km | .144            | 3.66 | Duobond II<br>+ 67%<br>Aluminum<br>Braid<br>12.0Ω/M'<br>39.4Ω/km        | .237       | 6.02 | 75               | 83%                   | 16.2                | 53.1 | See Chart<br>on page 6.88                                |                                                           |                                                                  |
| Sweep tested 5 MHz to 1 GHz.                                                                          |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| ★1000 ft. put-up also available in White.                                                             |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| <b>Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket</b>                                      |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| 75°C                                                                                                  | <b>9104P</b>                       | NEC:<br>CATV CMP<br>CEC:<br>CMP FT6 | U-1000†<br>1000† | U-304.8<br>304.8 | 22.0<br>24.0         | 10.0<br>10.9 | 20 AWG<br>(solid)<br>.032"<br>BCCS<br>44.5Ω/M'<br>146.0Ω/km | .140            | 3.56 | Duobond II<br>+ 67%<br>Aluminum<br>Braid<br>12.0Ω/M'<br>39.4Ω/km        | .203       | 5.16 | 75               | 83%                   | 16.3                | 53.5 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .4<br>.8<br>1.8<br>2.6<br>3.8<br>5.6<br>7.6<br>8.8<br>9.4 | 1.3<br>2.6<br>5.9<br>8.5<br>12.5<br>18.4<br>24.9<br>28.9<br>30.8 |
| Sweep tested 5 MHz to 1 GHz.                                                                          |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| <b>Gas-injected Foam Polyethylene Insulation • Black PVC Jacket</b>                                   |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| 80°C                                                                                                  | <b>9110</b>                        | NEC:<br>CATV CM<br>CEC:<br>CM       | U-1000★<br>1000  | U-304.8<br>304.8 | 25.0<br>26.0         | 11.4<br>11.8 | 20 AWG<br>(solid)<br>.032"<br>BCCS<br>44.5Ω/M'<br>146.0Ω/km | .144            | 3.66 | Duobond III<br>+ 67%<br>Aluminum<br>Braid<br>12.0Ω/M'<br>39.4Ω/km       | .242       | 6.15 | 75               | 83%                   | 16.2                | 53.1 | See Chart<br>on page 6.88                                |                                                           |                                                                  |
| Sweep tested 5 MHz to 1 GHz.                                                                          |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| ★U-1000 ft. put-up also available in White.                                                           |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |
| 80°C                                                                                                  | <b>1186A</b>                       | NEC:<br>CATV CM<br>CEC:<br>CM       | 1000             | 304.8            | 28.0                 | 12.7         | 20 AWG<br>(solid)<br>.032"<br>BCCS<br>44.5Ω/M'<br>146.0Ω/km | .144            | 3.66 | Duobond IV*<br>+ 67% & 46%<br>Aluminum<br>Braids<br>7.0Ω/M'<br>23.0Ω/km | .265       | 6.73 | 75               | 83%                   | 16.2                | 53.1 | See Chart<br>on page 6.88                                |                                                           |                                                                  |
| Sweep tested 5 MHz to 1 GHz.                                                                          |                                    |                                     |                  |                  |                      |              |                                                             |                 |      |                                                                         |            |      |                  |                       |                     |      |                                                          |                                                           |                                                                  |

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

\*Duobond IV = Duobond II + 67% aluminum braid + Duofoil® tape + 46% aluminum braid.

†Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  for spools and  $\pm 5\%$  for UnReel from length shown.



## Broadband Coax

CATV Cables

Series 59

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>( $\Omega$ ) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                           |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### Series 59 • 20 AWG Solid .032" Bare Copper-covered Steel • Duofoil® + Tinned Copper Braid(s) Shield

| Plenum • Foam FEP Insulation • Black FEP Jacket                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|----------------------------------------------------------------------------------|-------|-------|---------|-------------------|-------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|-----|------|
|  | 200°C | 89108 | NEC:    | 500 <sup>†</sup>  | 152.4 | 19.0 | 8.6  | 20 AWG   | .140 | 3.56 | Duofoil  | .203 | 5.16 | 75 | 82% | 16.5 | 54.1 | 1    | .4  | 1.3  |
|                                                                                  |       |       | CATVP   | 1000 <sup>†</sup> | 304.8 | 38.0 | 17.3 | (solid)  |      |      | + 96%    |      |      |    |     |      |      | 10   | .8  | 2.6  |
|                                                                                  |       |       | CMP     |                   |       |      |      | .032"    |      |      | TC Braid |      |      |    |     |      |      | 50   | 1.8 | 5.9  |
|                                                                                  |       |       | CEC:    |                   |       |      |      | BCCS     |      |      | 2.6Ω/M'  |      |      |    |     |      |      | 100  | 2.6 | 8.5  |
|                                                                                  |       |       | CMP FT6 |                   |       |      |      | 26.0Ω/M' |      |      | 8.5Ω/km  |      |      |    |     |      |      | 200  | 3.8 | 12.5 |
|                                                                                  |       |       |         |                   |       |      |      | 85.3Ω/km |      |      |          |      |      |    |     |      |      | 400  | 5.6 | 18.4 |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 700  | 7.6 | 24.9 |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 900  | 8.8 | 28.9 |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 1000 | 9.4 | 30.8 |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                  |       |       |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |

Sweep tested 5 MHz to 400 MHz.

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket                        |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|----------------------------------------------------------------------------------|------|-------|---------|---------|---------|------|------|----------|------|------|----------|------|------|----|-----|------|------|-----|------|------|
|  | 75°C | 82108 | NEC:    | U-1000† | U-304.8 | 35.0 | 15.9 | 20 AWG   | .140 | 3.56 | Duofoil  | .202 | 5.13 | 75 | 82% | 16.5 | 54.1 | 1   | .4   | 1.3  |
|                                                                                  |      |       | CATVP   | 1000†   | 304.8   | 35.0 | 15.9 | (solid)  |      |      | + 96%    |      |      |    |     |      |      | 10  | .8   | 2.6  |
|                                                                                  |      |       | CMP     |         |         |      |      | .032"    |      |      | TC Braid |      |      |    |     |      |      | 50  | 1.8  | 5.9  |
|                                                                                  |      |       | CEC:    |         |         |      |      | BCCS     |      |      | 2.6Ω/M'  |      |      |    |     |      |      | 100 | 2.6  | 8.5  |
|                                                                                  |      |       | CMP FT6 |         |         |      |      | 26.0Ω/M' |      |      | 8.5Ω/km  |      |      |    |     |      |      | 200 | 3.8  | 12.5 |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      | 400 | 5.6  | 18.4 |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      | 700 | 7.6  | 24.9 |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      | 900 | 8.8  | 28.9 |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      | 1000 | 9.4 | 30.8 |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                  |      |       |         |         |         |      | </   |          |      |      |          |      |      |    |     |      |      |     |      |      |

Sweep tested 5 MHz to 400 MHz.

| Plenum • Foam FEP Insulation • Snow Beige FEP Jacket                             |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|----------------------------------------------------------------------------------|-------|---------|-------------------|-------|------|------|----------|------|------|-------------|------|------|----|-----|------|------|------|-----|------|--|
| 200°C                                                                            | 1151A | NEC:    | 1000 <sup>†</sup> | 304.8 | 40.0 | 18.2 | 20 AWG   | .140 | 3.56 | (2) Duofoil | .236 | 5.99 | 75 | 84% | 16.5 | 54.1 | 1    | .4  | 1.3  |  |
|  |       | CMP     |                   |       |      |      | (solid)  |      |      | Shields     |      |      |    |     |      |      | 10   | .8  | 2.6  |  |
|                                                                                  |       | CEC:    |                   |       |      |      | .032"    |      |      | + (2) TC    |      |      |    |     |      |      | 50   | 1.8 | 5.9  |  |
|                                                                                  |       | CMP FT6 |                   |       |      |      | BCCS     |      |      | Braids      |      |      |    |     |      |      | 100  | 2.6 | 8.5  |  |
|                                                                                  |       |         |                   |       |      |      | 26.0Ω/M' |      |      | 2.3Ω/M'     |      |      |    |     |      |      | 200  | 3.8 | 12.5 |  |
|                                                                                  |       |         |                   |       |      |      | 85.3Ω/km |      |      | 7.5Ω/km     |      |      |    |     |      |      | 400  | 5.6 | 18.4 |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      | 700  | 7.6 | 24.9 |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      | 900  | 8.8 | 28.9 |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      | 1000 | 9.4 | 30.8 |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |
|                                                                                  |       |         |                   |       |      |      |          |      |      |             |      |      |    |     |      |      |      |     |      |  |

Sweep tested 5 MHz to 400 MHz.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • TC = Tinned Copper

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  from length shown.

By:


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1-800-527-0010

# Broadband Coax

## CATV Cables

### Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond® II + 60% Aluminum Braid Shield

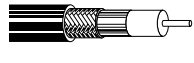
##### Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)

|                              |             |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |
|------------------------------|-------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|--|---------------------------|
| 80°C                         | <b>9066</b> |  | 1000 | 304.8 | 27.0 | 12.3 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |             |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |



##### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

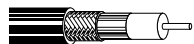
|                              |             |                                  |                                  |                                      |                              |                            |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |
|------------------------------|-------------|----------------------------------|----------------------------------|--------------------------------------|------------------------------|----------------------------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|--|---------------------------|
| 80°C                         | <b>9116</b> | NEC:<br>CATV<br>CM<br>CEC:<br>CM | U-500*<br>500<br>U-1000*<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 15.5<br>17.5<br>31.0<br>32.0 | 7.0<br>7.9<br>14.1<br>14.5 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |             |                                  |                                  |                                      |                              |                            |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |



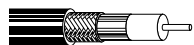
\*500 ft. and U-500 ft. put-ups also available in White.

\*1000 ft. and U-1000 ft. put-ups also available in White or Beige.

|      |                                    |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |
|------|------------------------------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|--|---------------------------|
| 80°C | <b>9116N</b><br><small>new</small> |  | 1000 | 304.8 | 31.0 | 14.1 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
|------|------------------------------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|--|---------------------------|



|                              |              |                                         |                       |                           |                      |                     |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |
|------------------------------|--------------|-----------------------------------------|-----------------------|---------------------------|----------------------|---------------------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|--|---------------------------|
| 80°C                         | <b>9116R</b> | NEC:<br>CATVR<br>CMR<br>CEC:<br>CMR FT4 | 500<br>U-1000<br>1000 | 152.4<br>U-304.8<br>304.8 | 17.0<br>34.0<br>35.0 | 7.7<br>15.5<br>15.9 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |              |                                         |                       |                           |                      |                     |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |



##### Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

|                                                                                     |              |         |        |         |      |      |          |      |      |            |      |      |    |                              |      |      |      |     |      |
|-------------------------------------------------------------------------------------|--------------|---------|--------|---------|------|------|----------|------|------|------------|------|------|----|------------------------------|------|------|------|-----|------|
| 75°C                                                                                | <b>9116P</b> | NEC:    | U-1000 | U-304.8 | 27.0 | 12.3 | 18 AWG   | .170 | 4.32 | Duobond II | .235 | 5.97 | 75 | 83%                          | 16.3 | 53.5 | 1    | .3  | 1.0  |
|  |              | CATVP   | 1000   | 304.8   | 28.0 | 12.7 | (solid)  |      |      | + 60%      |      |      |    |                              |      |      | 10   | .7  | 2.2  |
|                                                                                     |              | CMP     |        |         |      |      | .040"    |      |      | Aluminum   |      |      |    |                              |      |      | 50   | 1.6 | 5.2  |
|                                                                                     |              | CEC:    |        |         |      |      | BCCS     |      |      | Braid      |      |      |    |                              |      |      | 100  | 2.2 | 7.2  |
|                                                                                     |              | CMP FT6 |        |         |      |      | 28.0Ω/M' |      |      | 9.0Ω/M'    |      |      |    | Sweep tested 5 MHz to 1 GHz. |      |      | 200  | 3.0 | 9.8  |
|                                                                                     |              |         |        |         |      |      | 91.9Ω/km |      |      | 29.5Ω/km   |      |      |    |                              |      |      | 400  | 4.6 | 15.1 |
|                                                                                     |              |         |        |         |      |      |          |      |      |            |      |      |    |                              |      |      | 700  | 6.6 | 21.7 |
|                                                                                     |              |         |        |         |      |      |          |      |      |            |      |      |    |                              |      |      | 900  | 7.7 | 25.3 |
|                                                                                     |              |         |        |         |      |      |          |      |      |            |      |      |    |                              |      |      | 1000 | 8.2 | 26.9 |

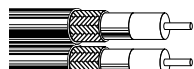


##### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

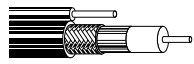
|                              |              |                                  |                |                  |              |              |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |
|------------------------------|--------------|----------------------------------|----------------|------------------|--------------|--------------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|--|---------------------------|
| 80°C                         | <b>1545A</b> | NEC:<br>CATV<br>CM<br>CEC:<br>CM | U-1000<br>1000 | U-304.8<br>304.8 | 32.0<br>32.0 | 14.5<br>14.5 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |              |                                  |                |                  |              |              |                                                            |      |      |                                                                 |      |      |    |     |      |      |  |                           |



|                              |             |                                  |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |  |                           |
|------------------------------|-------------|----------------------------------|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|--|---------------------------|
| 80°C                         | <b>9077</b> | NEC:<br>CATV<br>CM<br>CEC:<br>CM | 1000 | 304.8 | 64.0 | 29.1 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270<br>x<br>.590 | 6.86<br>x<br>14.99 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |             |                                  |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |  |                           |



|                              |              |  |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |  |                           |
|------------------------------|--------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|--|---------------------------|
| 80°C                         | <b>9117M</b> |  | 1000 | 304.8 | 44.0 | 20.0 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270<br>x<br>.410 | 6.86<br>x<br>10.41 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |              |  |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |  |                           |



.051" (1.3mm) galvanized steel messenger.

|                              |               |  |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |  |                           |
|------------------------------|---------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|--|---------------------------|
| 80°C                         | <b>1258AM</b> |  | 1000 | 304.8 | 45.0 | 20.5 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270<br>x<br>.410 | 6.86<br>x<br>10.41 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |               |  |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |  |                           |



.051" (1.3mm) galvanized steel messenger.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

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# Broadband Coax

## CATV Cables

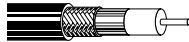
### Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond® II + 90% Aluminum Braid Shield

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                     |       |      |          |         |      |      |          |      |      |            |      |      |    |                              |      |      |                        |  |  |
|----------------------------------------------------------------------------------|-------|------|----------|---------|------|------|----------|------|------|------------|------|------|----|------------------------------|------|------|------------------------|--|--|
| 80°C                                                                             | 1530A | NEC: | U-1000 ▲ | U-304.8 | 32.0 | 14.5 | 18 AWG   | .180 | 4.57 | Duobond II | .270 | 6.86 | 75 | 83%                          | 16.2 | 53.1 | See Chart on page 6.88 |  |  |
|  |       | CATV | 1000 ▲   | 304.8   | 33.0 | 15.0 | (solid)  |      |      | + 90%      |      |      |    |                              |      |      |                        |  |  |
|                                                                                  |       | CM   |          |         |      |      | .040"    |      |      | Aluminum   |      |      |    |                              |      |      |                        |  |  |
|                                                                                  |       | CEC: |          |         |      |      | BCCS     |      |      | Braid      |      |      |    |                              |      |      |                        |  |  |
|                                                                                  |       | CM   |          |         |      |      | 28.0Ω/M' |      |      | 5.0Ω/M'    |      |      |    | Sweep tested 5 MHz to 1 GHz. |      |      |                        |  |  |
|                                                                                  |       |      |          |         |      |      | 91.9Ω/km |      |      | 16.4Ω/km   |      |      |    |                              |      |      |                        |  |  |

\*1000 ft. and U-1000 ft. put-ups also available in Beige.

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket                        |        |                                         |                                          |                  |              |              |                                                            |      |      |                                                                 |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|----------------------------------------------------------------------------------|--------|-----------------------------------------|------------------------------------------|------------------|--------------|--------------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 75°C                                                                             | 1530AP | NEC:<br>CATVP<br>CMP<br>CEC:<br>CMP FT6 | U-1000 <sup>†</sup><br>1000 <sup>†</sup> | U-304.8<br>304.8 | 29.0<br>30.0 | 13.2<br>13.6 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .170 | 4.32 | Duobond II<br>+ 90%<br>Aluminum<br>Braid<br>5.0Ω/M'<br>16.4Ω/km | .235 | 5.97 | 75 | 83% | 16.3 | 53.5 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.7<br>1.6<br>2.2<br>3.0<br>4.6<br>6.6<br>7.7<br>8.2 | 1.0<br>2.2<br>5.2<br>7.2<br>9.8<br>15.1<br>21.7<br>25.3<br>26.9 |
|  |        |                                         |                                          |                  |              |              |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                    |      |      |    |     |      |      |                                                          |                                                           |                                                                 |

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                     |        |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |                           |  |
|----------------------------------------------------------------------------------|--------|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------|--|
| 80°C                                                                             | 1531AM | 1000 | 304.8 | 45.0 | 20.5 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 90%<br>Aluminum<br>Braid<br>5.0Ω/M'<br>16.4Ω/km | .270<br>x<br>.410 | 6.86<br>x<br>10.41 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |  |
|  |        |      |       |      |      | Sweep tested 5 MHz to 1 GHz.                               |      |      |                                                                 |                   |                    |    |     |      |      |                           |  |

.051" (1.3mm) galvanized steel messenger.

|                                                                                    |        |      |       |      |      |                                                            |      |      |                                                                 |                              |                    |    |     |      |      |                           |  |  |  |
|------------------------------------------------------------------------------------|--------|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------------------------------|--------------------|----|-----|------|------|---------------------------|--|--|--|
| 80°C                                                                               | 1832AM | 1000 | 304.8 | 45.0 | 20.5 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 90%<br>Aluminum<br>Braid<br>5.0Ω/M'<br>16.4Ω/km | .270<br>x<br>.410            | 6.86<br>x<br>10.41 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |  |  |  |
|  |        |      |       |      |      |                                                            |      |      |                                                                 | Sweep tested 5 MHz to 1 GHz. |                    |    |     |      |      |                           |  |  |  |
| .051" (1.3mm) galvanized steel messenger.                                          |        |      |       |      |      |                                                            |      |      |                                                                 |                              |                    |    |     |      |      |                           |  |  |  |

CoreGuard®

.051" (1.3mm) galvanized steel messenger.

| Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)  |       |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      |                           |  |
|------------------------------------------------------------------------------------|-------|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|---------------------------|--|
| Burial<br>80°C                                                                     | 1532A | 1000 | 304.8 | 28.0 | 12.7 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 90%<br>Aluminum<br>Braid<br>5.0Ω/M'<br>16.4Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |  |
|  |       |      |       |      |      | Sweep tested 5 MHz to 1 GHz.                               |      |      |                                                                 |      |      |    |     |      |      |                           |  |

CoreGuard®

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



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**1-800-527-0010**

## Broadband Coax

### CATV Cables

#### Series 6

| Description                                                                                               | Part No.     | UL NEC/<br>C(UL) CEC<br>Type     | Standard Lengths |                  | Standard Unit Weight |              | Conductor (stranding)<br>Diameter<br>Nom. DCR           | Nominal Core OD |      | Shielding Materials<br>Nom. DCR                         | Nominal OD     |                 | Nom. Imp.<br>(Ω) | Nom. Vel. of Prop. | Nominal Capacitance |      | Nominal Attenuation    |            |         |
|-----------------------------------------------------------------------------------------------------------|--------------|----------------------------------|------------------|------------------|----------------------|--------------|---------------------------------------------------------|-----------------|------|---------------------------------------------------------|----------------|-----------------|------------------|--------------------|---------------------|------|------------------------|------------|---------|
|                                                                                                           |              |                                  | Ft.              | m                | Lbs.                 | kg           |                                                         | Inch            | mm   |                                                         | Inch           | mm              |                  |                    | pF/Ft.              | pF/m | MHz                    | dB/100 Ft. | dB/100m |
| <b>Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond® III + 60% Aluminum Braid Shield</b> |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| <b>Gas-injected Foam Polyethylene Insulation • Black PVC Jacket</b>                                       |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| 80°C                                                                                                      | <b>9118</b>  | NEC:<br>CATV<br>CM<br>CEC:<br>CM | U-1000 ▲<br>1000 | U-304.8<br>304.8 | 31.0<br>32.0         | 14.1<br>14.5 | 18 AWG (solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III + 60% Aluminum Braid<br>6.5Ω/M'<br>21.3Ω/km | .275           | 6.99            | 75               | 83%                | 16.2                | 53.1 | See Chart on page 6.88 |            |         |
|                          |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| Sweep tested 5 MHz to 1 GHz.                                                                              |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| ▲U-1000 ft. put-up also available in Beige.                                                               |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| 80°C                                                                                                      | <b>9119M</b> |                                  | 1000             | 304.8            | 45.0                 | 20.5         | 18 AWG (solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III + 60% Aluminum Braid<br>6.5Ω/M'<br>21.3Ω/km | .275 x<br>.416 | 6.99 x<br>10.57 | 75               | 83%                | 16.2                | 53.1 | See Chart on page 6.88 |            |         |
|                          |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| .051" (1.3mm) galvanized steel messenger.                                                                 |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| 80°C                                                                                                      | <b>1546A</b> | NEC:<br>CATV<br>CM<br>CEC:<br>CM | U-1000<br>1000   | U-304.8<br>304.8 | 32.5<br>33.0         | 14.5<br>15.0 | 18 AWG (solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III + 60% Aluminum Braid<br>6.5Ω/M'<br>21.3Ω/km | .275           | 6.99            | 75               | 83%                | 16.2                | 53.1 | See Chart on page 6.88 |            |         |
|                          |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| CoreGuard®                                                                                                |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| Sweep tested 5 MHz to 1 GHz.                                                                              |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| <b>Gas-injected Foam Polyethylene Insulation • Black Polyethylene Jacket</b>                              |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| Burial<br>80°C                                                                                            | <b>1837A</b> |                                  | 1000             | 304.8            | 28.0                 | 12.7         | 18 AWG (solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III + 60% Aluminum Braid<br>6.5Ω/M'<br>21.3Ω/km | .275           | 6.99            | 75               | 83%                | 16.2                | 53.1 | See Chart on page 6.88 |            |         |
|                        |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| CoreGuard®                                                                                                |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |
| Sweep tested 5 MHz to 1 GHz.                                                                              |              |                                  |                  |                  |                      |              |                                                         |                 |      |                                                         |                |                 |                  |                    |                     |      |                        |            |         |

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

# Broadband Coax

## CATV Cables

### Series 6

| Description                                                                                        | Part No. | UL NEC/<br>C(UL) CEC<br>Type     | Standard Lengths             |                  | Standard Unit Weight |              | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR           | Nominal Core OD |      | Shielding<br>Materials<br>Nom. DCR                               | Nominal OD        |                    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |                           | Nominal Attenuation       |                |             |
|----------------------------------------------------------------------------------------------------|----------|----------------------------------|------------------------------|------------------|----------------------|--------------|------------------------------------------------------------|-----------------|------|------------------------------------------------------------------|-------------------|--------------------|------------------|-----------------------|---------------------|---------------------------|---------------------------|----------------|-------------|
|                                                                                                    |          |                                  | Ft.                          | m                | Lbs.                 | kg           |                                                            | Inch            | mm   |                                                                  | Inch              | mm                 |                  |                       | pF/Ft.              | pF/m                      | MHz                       | dB/<br>100 Ft. | dB/<br>100m |
| Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond® III + 80% Aluminum Braid Shield |          |                                  |                              |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                                       |          |                                  |                              |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| 80°C                                                                                               | 1613A    | NEC:<br>CATV<br>CM<br>CEC:<br>CM | U-1000<br>1000               | U-304.8<br>304.8 | 32.0<br>33.0         | 14.5<br>15.0 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III<br>+ 80%<br>Aluminum<br>Braid<br>5.2Ω/M'<br>17.1Ω/km | .275<br>6.99      | 75                 | 83%              | 16.2                  | 53.1                | See Chart<br>on page 6.88 |                           |                |             |
|                    |          |                                  | Sweep tested 5 MHz to 1 GHz. |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| 80°C                                                                                               | 1615AM   |                                  | 1000                         | 304.8            | 46.0                 | 20.9         | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III<br>+ 80%<br>Aluminum<br>Braid<br>5.2Ω/M'<br>17.1Ω/km | .275<br>x<br>.416 | 6.99<br>x<br>10.57 | 75               | 83%                   | 16.2                | 53.1                      | See Chart<br>on page 6.88 |                |             |
|                    |          |                                  | Sweep tested 5 MHz to 1 GHz. |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| .051" (1.3mm) galvanized steel messenger.                                                          |          |                                  |                              |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| 80°C                                                                                               | 1616AM   |                                  | 1000                         | 304.8            | 46.0                 | 20.9         | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III<br>+ 80%<br>Aluminum<br>Braid<br>5.2Ω/M'<br>17.1Ω/km | .275<br>x<br>.416 | 6.99<br>x<br>10.57 | 75               | 83%                   | 16.2                | 53.1                      | See Chart<br>on page 6.88 |                |             |
|                    |          |                                  | Sweep tested 5 MHz to 1 GHz. |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| CoreGuard®                                                                                         |          |                                  |                              |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| .051" (1.3mm) galvanized steel messenger.                                                          |          |                                  |                              |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)                  |          |                                  |                              |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| Burial<br>80°C                                                                                     | 1614A    |                                  | 1000                         | 304.8            | 29.0                 | 13.2         | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180            | 4.57 | Duobond III<br>+ 80%<br>Aluminum<br>Braid<br>5.2Ω/M'<br>17.1Ω/km | .275              | 6.99               | 75               | 83%                   | 16.2                | 53.1                      | See Chart<br>on page 6.88 |                |             |
|                  |          |                                  | Sweep tested 5 MHz to 1 GHz. |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |
| CoreGuard®                                                                                         |          |                                  |                              |                  |                      |              |                                                            |                 |      |                                                                  |                   |                    |                  |                       |                     |                           |                           |                |             |

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

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**1-800-527-0010**

# Broadband Coax

## CATV Cables

### Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>( $\Omega$ ) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                           |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond Plus® + 80% Aluminum Braid Shield

##### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|                                                                                   |             |                                  |                    |                  |              |              |                                                            |      |      |                                                                   |      |      |    |     |      |      |                           |                              |
|-----------------------------------------------------------------------------------|-------------|----------------------------------|--------------------|------------------|--------------|--------------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|------|------|----|-----|------|------|---------------------------|------------------------------|
| 80°C                                                                              | <b>9058</b> | NEC:<br>CATV<br>CM<br>CEC:<br>CM | U-1000 •<br>1000 ▲ | U-304.8<br>304.8 | 33.0<br>33.0 | 15.0<br>15.0 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond Plus<br>+ 80%<br>Aluminum<br>Braid<br>4.6Ω/M'<br>15.1Ω/km | .275 | 6.99 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |                              |
|  |             |                                  |                    |                  |              |              |                                                            |      |      |                                                                   |      |      |    |     |      |      |                           | Sweep tested 5 MHz to 1 GHz. |

▲1000 ft. put-up also available in White.

•U-1000 ft. put-up also available in White or Beige.

|                              |                           |                                  |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |
|------------------------------|---------------------------|----------------------------------|------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------|
| 80°C                         | <b>9072</b><br><b>new</b> | NEC:<br>CATV<br>CM<br>CEC:<br>CM | 1000 | 304.8 | 70.0 | 31.8 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond Plus<br>+ 80%<br>Aluminum<br>Braid<br>4.6Ω/M'<br>15.1Ω/km | .280<br>x<br>.605 | 7.11<br>x<br>15.37 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |                           |                                  |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |

|                                                                                   |        |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |  |
|-----------------------------------------------------------------------------------|--------|------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------|--|
| Shorting Fold                                                                     |        |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |  |
| 80°C                                                                              | 9059AM | 1000 | 304.8 | 47.0 | 21.4 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond Plus<br>+ 80%<br>Aluminum<br>Braid<br>4.6Ω/M'<br>15.1Ω/km | .275<br>x<br>.416 | 6.99<br>x<br>10.57 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |  |
|  |        |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |  |
| Sweep tested 5 MHz to 1 GHz.                                                      |        |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |  |

.051" (1.3mm) galvanized steel messenger.

|                              |        |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |
|------------------------------|--------|------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------|
| 80°C                         | 1260AM | 1000 | 304.8 | 47.0 | 21.4 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond Plus<br>+ 80%<br>Aluminum<br>Braid<br>4.6Ω/M'<br>15.1Ω/km | .275<br>x<br>.416 | 6.99<br>x<br>10.57 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |        |      |       |      |      |                                                            |      |      |                                                                   |                   |                    |    |     |      |      |                           |

.051" (1.3mm) galvanized steel messenger.

##### Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)

|                                                                                     |             |      |       |      |      |                                                            |      |      |                                                                   |      |      |    |     |      |      |                           |
|-------------------------------------------------------------------------------------|-------------|------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|------|------|----|-----|------|------|---------------------------|
| <b>Burial</b><br>80°C                                                               | <b>9062</b> | 1000 | 304.8 | 29.0 | 13.2 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond Plus<br>+ 80%<br>Aluminum<br>Braid<br>4.6Ω/M'<br>15.1Ω/km | .275 | 6.99 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
|  |             |      |       |      |      |                                                            |      |      |                                                                   |      |      |    |     |      |      |                           |
| Sweep tested 5 MHz to 1 GHz.                                                        |             |      |       |      |      |                                                            |      |      |                                                                   |      |      |    |     |      |      |                           |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

# Broadband Coax

## CATV Cables

### Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond Plus® + 90% Aluminum Braid Shield

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                     |       |                          |      |       |      |      |                                                            |      |      |                                                                   |      |      |    |     |      |                              |                           |  |
|----------------------------------------------------------------------------------|-------|--------------------------|------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|------|------|----|-----|------|------------------------------|---------------------------|--|
| 80°C                                                                             | 1621A | NEC:                     | 1000 | 304.8 | 34.0 | 15.5 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond Plus<br>+ 90%<br>Aluminum<br>Braid<br>3.7Ω/M'<br>12.1Ω/km | .275 | 6.99 | 75 | 83% | 16.2 | 53.1                         | See Chart<br>on page 6.88 |  |
|  |       | CATV<br>CM<br>CEC:<br>CM |      |       |      |      |                                                            |      |      |                                                                   |      |      |    |     |      | Sweep tested 5 MHz to 1 GHz. |                           |  |
| Shorting Fold                                                                    |       |                          |      |       |      |      |                                                            |      |      |                                                                   |      |      |    |     |      |                              |                           |  |

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond® IV\* Quad Shield

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                     |       |      |          |         |      |      |          |      |      |            |      |      |    |                              |      |      |                        |  |
|----------------------------------------------------------------------------------|-------|------|----------|---------|------|------|----------|------|------|------------|------|------|----|------------------------------|------|------|------------------------|--|
| 80°C                                                                             | 1189A | NEC: | U-500 ▼  | U-152.4 | 16.0 | 7.3  | 18 AWG   | .180 | 4.57 | Duobond IV | .298 | 7.57 | 75 | 83%                          | 16.2 | 53.1 | See Chart on page 6.88 |  |
|  |       | CATV | U-1000 ▲ | U-304.8 | 37.0 | 16.8 | (solid)  |      |      | 60% & 40%  |      |      |    |                              |      |      |                        |  |
|                                                                                  |       | CM   | 1000 •   | 304.8   | 37.0 | 16.8 | .040"    |      |      | Aluminum   |      |      |    |                              |      |      |                        |  |
|                                                                                  |       | CEC: |          |         |      |      | BCCS     |      |      | Braids     |      |      |    |                              |      |      |                        |  |
|                                                                                  |       | CM   |          |         |      |      | 28.0Ω/M' |      |      | 4.8Ω/M'    |      |      |    |                              |      |      |                        |  |
|                                                                                  |       |      |          |         |      |      | 91.9Ω/km |      |      | 15.7Ω/km   |      |      |    | Sweep tested 5 MHz to 1 GHz. |      |      |                        |  |

▼U-500 ft. put-up also available in White.

▲U-1000 ft. put-up also available in White or Neutral.

•1000 ft. put-up also available in White, Beige or Neutral.

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket                         |                      |                                        |                    |                  |              |              |                                                            |      |      |                                                                      |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-----------------------------------------------------------------------------------|----------------------|----------------------------------------|--------------------|------------------|--------------|--------------|------------------------------------------------------------|------|------|----------------------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 75°C                                                                              | 1189AP<br><b>new</b> | NEC:<br>CATV<br>CMP<br>CEC:<br>CMP FT6 | U-1000 †<br>1000 † | U-304.8<br>304.8 | 41.0<br>42.0 | 18.6<br>19.1 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .170 | 4.32 | Duobond IV<br>60% & 40%<br>Aluminum<br>Braids<br>4.8Ω/M'<br>15.7Ω/km | .248 | 6.30 | 75 | 83% | 16.3 | 53.5 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.7<br>1.6<br>2.2<br>3.0<br>4.6<br>6.6<br>7.7<br>8.2 | 1.0<br>2.2<br>5.2<br>7.2<br>9.8<br>15.1<br>21.7<br>25.3<br>26.9 |
|  |                      |                                        |                    |                  |              |              |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                         |      |      |    |     |      |      |                                                          |                                                           |                                                                 |

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                       |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|------------------------------------------------------------------------------------|-------|---------|---------|---------|------|------|----------|------|------|-----------------|------|------|----|-----|------|------|------------------------|--|
| 80°C                                                                               | 1884A | NEC:    | U-1000* | U-304.8 | 39.0 | 17.7 | 18 AWG   | .180 | 4.57 | Duobond IV      | .298 | 7.57 | 75 | 83% | 16.2 | 53.1 | See Chart on page 6.88 |  |
|  |       | CATV/CM | 1000*   | 304.8   | 38.0 | 17.3 | (solid)  |      |      | 60% & 40%       |      |      |    |     |      |      |                        |  |
|                                                                                    |       | CEC: CM |         |         |      |      | .040"    |      |      | Aluminum Braids |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      | BCCS     |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      | 28.0Ω/M' |      |      | 4.8Ω/M'         |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      | 91.9Ω/km |      |      | 15.7Ω/km        |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |
|                                                                                    |       |         |         |         |      |      |          |      |      |                 |      |      |    |     |      |      |                        |  |

†1000 ft. and U-1000 ft. put-ups also available in Neutral.

|                                                                                    |        |                   |       |      |      |                                                            |                              |      |                                                                      |                   |                    |    |     |      |      |                           |
|------------------------------------------------------------------------------------|--------|-------------------|-------|------|------|------------------------------------------------------------|------------------------------|------|----------------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------|
| 80°C                                                                               | 1191AM | 1000 <sup>†</sup> | 304.8 | 49.0 | 22.3 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180                         | 4.57 | Duobond IV<br>60% & 40%<br>Aluminum<br>Braids<br>4.8Ω/M'<br>15.7Ω/km | .298<br>x<br>.433 | 7.57<br>x<br>11.00 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
|  |        |                   |       |      |      |                                                            | Sweep tested 5 MHz to 1 GHz. |      |                                                                      |                   |                    |    |     |      |      |                           |

.051" (1.3mm) galvanized steel messenger.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

\*Duobond IV = Duobond II + 60% aluminum braid + Duofoil® tape + 40% aluminum braid.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



By:



INTERSTATE WIRE

INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

# Broadband Coax

## CATV Cables

### Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond® IV\* Quad Shield

| Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange) |       |  |      |       |      |      |                                                            |      |      |                                                                      |      |      |    |     |      |      |  |                           |  |
|-----------------------------------------------------------------------------------|-------|--|------|-------|------|------|------------------------------------------------------------|------|------|----------------------------------------------------------------------|------|------|----|-----|------|------|--|---------------------------|--|
| Burial<br>80°C                                                                    | 1190A |  | 1000 | 304.8 | 33.0 | 15.0 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond IV<br>60% + 40%<br>Aluminum<br>Braids<br>4.8Ω/M'<br>15.7Ω/km | .298 | 7.57 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |  |



CoreGuard®

Sweep tested 5 MHz to 1 GHz.

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duofoil® + Tinned Copper Braid Shield

| Plenum • Foam FEP Insulation • Black FEP Jacket |       |                                         |               |                |              |              |                                                            |      |      |                                                     |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-------------------------------------------------|-------|-----------------------------------------|---------------|----------------|--------------|--------------|------------------------------------------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 200°C                                           | 89120 | NEC:<br>CATVP<br>CMP<br>CEC:<br>CMP FT6 | 500†<br>1000† | 152.4<br>304.8 | 23.0<br>46.0 | 10.5<br>20.9 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .170 | 4.32 | Duofoil<br>95%<br>TC<br>Braid<br>1.7Ω/M'<br>5.6Ω/km | .234 | 5.94 | 75 | 82% | 16.5 | 54.1 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.7<br>1.6<br>2.2<br>3.0<br>4.6<br>6.6<br>7.7<br>8.2 | 1.0<br>2.2<br>5.2<br>7.2<br>9.8<br>15.1<br>21.7<br>25.3<br>26.9 |



Sweep tested 5 MHz to 400 MHz.

| Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket |       |                                         |               |                |              |              |                                                            |      |      |                                                     |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-------------------------------------------------------------|-------|-----------------------------------------|---------------|----------------|--------------|--------------|------------------------------------------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 150°C                                                       | 87120 | NEC:<br>CATVP<br>CMP<br>CEC:<br>CMP FT6 | 500†<br>1000† | 152.4<br>304.8 | 22.5<br>44.0 | 10.2<br>20.0 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .170 | 4.32 | Duofoil<br>95%<br>TC<br>Braid<br>1.7Ω/M'<br>5.6Ω/km | .234 | 5.94 | 75 | 82% | 16.5 | 54.1 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.7<br>1.6<br>2.2<br>3.0<br>4.6<br>6.6<br>7.7<br>8.2 | 1.0<br>2.2<br>5.2<br>7.2<br>9.8<br>15.1<br>21.7<br>25.3<br>26.9 |



Sweep tested 5 MHz to 400 MHz.

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket |       |                                         |       |       |      |      |                                                            |      |      |                                                     |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-----------------------------------------------------------|-------|-----------------------------------------|-------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 75°C                                                      | 82120 | NEC:<br>CATVP<br>CMP<br>CEC:<br>CMP FT6 | 1000† | 304.8 | 44.0 | 20.0 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .170 | 4.32 | Duofoil<br>95%<br>TC<br>Braid<br>1.7Ω/M'<br>5.6Ω/km | .234 | 5.94 | 75 | 82% | 16.5 | 54.1 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.7<br>1.6<br>2.2<br>3.0<br>4.6<br>6.6<br>7.7<br>8.2 | 1.0<br>2.2<br>5.2<br>7.2<br>9.8<br>15.1<br>21.7<br>25.3<br>26.9 |



Sweep tested 5 MHz to 400 MHz.

| Plenum • Foam FEP Insulation • Snow Beige Tint FEP Jacket |       |                                |               |                |              |              |                                                            |      |      |                                                                    |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-----------------------------------------------------------|-------|--------------------------------|---------------|----------------|--------------|--------------|------------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 200°C                                                     | 1152A | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 500†<br>1000† | 152.4<br>304.8 | 29.0<br>53.0 | 13.2<br>24.1 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .170 | 4.32 | (2) Duofoil<br>Shields<br>+ (2) TC<br>Braids<br>1.8Ω/M'<br>5.9Ω/km | .273 | 6.93 | 75 | 82% | 16.5 | 54.1 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.7<br>1.6<br>2.2<br>3.0<br>4.6<br>6.6<br>7.7<br>8.2 | 1.0<br>2.2<br>5.2<br>7.2<br>9.8<br>15.1<br>21.7<br>25.3<br>26.9 |



Sweep tested 5 MHz to 400 MHz.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1.

\*Duobond IV = Duobond II + 60% aluminum braid + Duofoil tape + 40% aluminum braid.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



# Broadband Coax

## CATV Cables

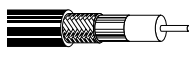
### Series 11

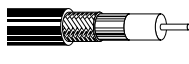
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

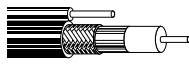
#### Series 11 • 14 AWG Solid .064" Bare Copper-covered Steel • Duofoil® + 40% Aluminum Braid Shield

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                     |      |  |      |       |      |      |                                                            |      |      |                                                              |      |       |    |     |      |      |  |                           |  |
|----------------------------------------------------------------------------------|------|--|------|-------|------|------|------------------------------------------------------------|------|------|--------------------------------------------------------------|------|-------|----|-----|------|------|--|---------------------------|--|
| 80°C                                                                             | 9011 |  | 1000 | 304.8 | 66.0 | 30.0 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duofoil<br>+ 40%<br>Aluminum<br>Braid<br>5.3Ω/M'<br>17.4Ω/km | .400 | 10.16 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |  |
|  |      |  |      |       |      |      |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                 |      |       |    |     |      |      |  |                           |  |

#### Series 11 • 14 AWG Solid .064" Bare Copper-covered Steel • Duobond® II + 60% Aluminum Braid Shield

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                       |        |                                         |             |                |              |              |                                                            |      |      |                                                                 |      |       |    |     |      |      |  |                           |  |
|------------------------------------------------------------------------------------|--------|-----------------------------------------|-------------|----------------|--------------|--------------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|-------|----|-----|------|------|--|---------------------------|--|
| 80°C                                                                               | 1523A  | NEC:<br>CATV<br>CM<br>CEC:<br>CM        | 1000        | 304.8          | 63.0         | 28.6         | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>4.1Ω/M'<br>13.4Ω/km | .400 | 10.16 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |  |
|    |        |                                         |             |                |              |              |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                    |      |       |    |     |      |      |  |                           |  |
| 80°C                                                                               | 1523AN |                                         | 1000        | 304.8          | 68.0         | 30.9         | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>4.1Ω/M'<br>13.4Ω/km | .400 | 10.16 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |  |
|    |        |                                         |             |                |              |              |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                    |      |       |    |     |      |      |  |                           |  |
| 80°C                                                                               | 1523R  | NEC:<br>CATVR<br>CMR<br>CEC:<br>CMR FT4 | 500<br>1000 | 152.4<br>304.8 | 34.0<br>70.0 | 15.4<br>31.8 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>4.1Ω/M'<br>13.4Ω/km | .400 | 10.16 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |  |
|  |        |                                         |             |                |              |              |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                    |      |       |    |     |      |      |  |                           |  |

| Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket                        |        |                                         |       |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      |                                                          |                                                           |                                                                |
|------------------------------------------------------------------------------------|--------|-----------------------------------------|-------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| 150°C                                                                              | 1523AP | NEC:<br>CATVP<br>CMP<br>CEC:<br>CMP FT6 | 1000† | 304.8 | 62.0 | 28.2 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .274 | 6.96 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>4.1Ω/M'<br>13.4Ω/km | .348 | 8.84 | 75 | 83% | 16.3 | 53.5 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .2<br>.4<br>1.0<br>1.4<br>2.3<br>3.7<br>5.3<br>6.4<br>6.9 | .6<br>1.3<br>3.3<br>4.6<br>7.5<br>12.1<br>17.4<br>21.0<br>22.6 |
|  |        |                                         |       |       |      |      |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                    |      |      |    |     |      |      |                                                          |                                                           |                                                                |

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket                       |        |  |      |       |      |      |                                                            |      |      |                                                                 |                   |                     |    |     |      |      |  |                           |  |
|------------------------------------------------------------------------------------|--------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|---------------------|----|-----|------|------|--|---------------------------|--|
| 80°C                                                                               | 1524AM |  | 1000 | 304.8 | 85.0 | 38.6 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>4.1Ω/M'<br>13.4Ω/km | .400<br>x<br>.580 | 10.16<br>x<br>14.73 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |  |
|  |        |  |      |       |      |      |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                    |                   |                     |    |     |      |      |  |                           |  |

.072" (1.83mm) galvanized steel messenger.

| Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)  |       |  |      |       |      |      |                                                            |      |      |                                                                 |      |       |    |     |      |      |  |                           |  |
|------------------------------------------------------------------------------------|-------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|-------|----|-----|------|------|--|---------------------------|--|
| Burial<br>80°C                                                                     | 1525A |  | 1000 | 304.8 | 60.0 | 27.3 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>4.1Ω/M'<br>13.4Ω/km | .400 | 10.16 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |  |
|  |       |  |      |       |      |      |                                                            |      |      | Sweep tested 5 MHz to 1 GHz.                                    |      |       |    |     |      |      |  |                           |  |

CoreGuard®

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1.

† Spools are one piece, but length may vary ±10% from length shown.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## Broadband Coax

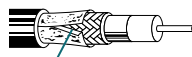
### CATV Cables

#### Series 11

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 11 • 14 AWG Solid .064" Bare Copper-covered Steel • Duobond Plus® + 77% Aluminum Braid Shield

##### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|                                                                                   |             |                               |                              |       |      |      |                                                            |      |      |                                                                   |      |       |    |     |      |      |  |                           |
|-----------------------------------------------------------------------------------|-------------|-------------------------------|------------------------------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|------|-------|----|-----|------|------|--|---------------------------|
| 80°C                                                                              | <b>9064</b> | NEC:<br>CATV<br>CM<br>CEC: CM | 1000                         | 304.8 | 68.0 | 30.9 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond Plus<br>+ 77%<br>Aluminum<br>Braid<br>3.8Ω/M'<br>12.5Ω/km | .400 | 10.16 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
|  |             |                               | Sweep tested 5 MHz to 1 GHz. |       |      |      |                                                            |      |      |                                                                   |      |       |    |     |      |      |  |                           |
| Shorting Fold                                                                     |             |                               |                              |       |      |      |                                                            |      |      |                                                                   |      |       |    |     |      |      |  |                           |

|                                                                                   |              |  |                              |       |      |      |                                                            |      |      |                                                                   |                   |                     |    |     |      |      |  |                           |
|-----------------------------------------------------------------------------------|--------------|--|------------------------------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|-------------------|---------------------|----|-----|------|------|--|---------------------------|
| 80°C                                                                              | <b>9065M</b> |  | 1000                         | 304.8 | 86.0 | 39.1 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond Plus<br>+ 77%<br>Aluminum<br>Braid<br>3.8Ω/M'<br>12.5Ω/km | .400<br>x<br>.580 | 10.16<br>x<br>14.73 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
|  |              |  | Sweep tested 5 MHz to 1 GHz. |       |      |      |                                                            |      |      |                                                                   |                   |                     |    |     |      |      |  |                           |
| Shorting Fold                                                                     |              |  |                              |       |      |      |                                                            |      |      |                                                                   |                   |                     |    |     |      |      |  |                           |

.072" (1.83mm) galvanized steel messenger.

##### Gas-injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)

|                                                                                   |             |  |                              |       |      |      |                                                            |      |      |                                                                   |      |       |    |     |      |      |  |                           |
|-----------------------------------------------------------------------------------|-------------|--|------------------------------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------------------------|------|-------|----|-----|------|------|--|---------------------------|
| Burial<br>80°C                                                                    | <b>9764</b> |  | 1000                         | 304.8 | 60.0 | 27.3 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond Plus<br>+ 77%<br>Aluminum<br>Braid<br>3.8Ω/M'<br>12.5Ω/km | .400 | 10.16 | 75 | 83% | 16.2 | 53.1 |  | See Chart<br>on page 6.88 |
|  |             |  | Sweep tested 5 MHz to 1 GHz. |       |      |      |                                                            |      |      |                                                                   |      |       |    |     |      |      |  |                           |
| Shorting Fold    CoreGuard®                                                       |             |  |                              |       |      |      |                                                            |      |      |                                                                   |      |       |    |     |      |      |  |                           |

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

# Broadband Coax

## CATV Cables

### Series 11

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|------------------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                              |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 11 • 14 AWG Solid .064" Bare Copper-covered Steel • Duobond® IV\* Quad Shield

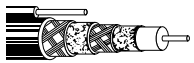
##### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|----------------------------------------------------------------------------------|-------|------|------|-------|------|------|----------|------|------|------------|------|-------|----|-----|------|------|--------------|
| 80°C                                                                             | 1617A | NEC: | 1000 | 304.8 | 67.0 | 30.5 | 14 AWG   | .280 | 7.11 | Duobond IV | .407 | 10.34 | 75 | 83% | 16.2 | 53.1 | See Chart    |
|  | CATV  | CM   |      |       |      |      | (solid)  |      |      | 60% & 40%  |      |       |    |     |      |      | on page 6.88 |
|                                                                                  | CEC:  | CM   |      |       |      |      | .064"    |      |      | Aluminum   |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      | BCCS     |      |      | Braids     |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      | 11.0Ω/M' |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      | 36.1Ω/km |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |
|                                                                                  |       |      |      |       |      |      |          |      |      |            |      |       |    |     |      |      |              |



CoreGuard®

|                                                                                  |        |      |       |      |      |                                                            |      |      |                                                                     |                   |                     |    |     |      |      |                           |
|----------------------------------------------------------------------------------|--------|------|-------|------|------|------------------------------------------------------------|------|------|---------------------------------------------------------------------|-------------------|---------------------|----|-----|------|------|---------------------------|
| 80°C                                                                             | 1619AM | 1000 | 304.8 | 84.0 | 38.2 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond IV<br>60% & 40%<br>Aluminum<br>Braids<br>3.0Ω/M'<br>9.8Ω/km | .407<br>x<br>.560 | 10.34<br>x<br>14.22 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
|  |        |      |       |      |      |                                                            |      |      |                                                                     |                   |                     |    |     |      |      |                           |
| Sweep tested 5 MHz to 1 GHz.                                                     |        |      |       |      |      |                                                            |      |      |                                                                     |                   |                     |    |     |      |      |                           |



.072" (1.83mm) galvanized steel messenger.

|                              |        |      |       |      |      |                                                            |      |      |                                                                     |                   |                     |    |     |      |      |                           |
|------------------------------|--------|------|-------|------|------|------------------------------------------------------------|------|------|---------------------------------------------------------------------|-------------------|---------------------|----|-----|------|------|---------------------------|
| 80°C                         | 1620AM | 1000 | 304.8 | 86.0 | 39.1 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond IV<br>60% & 40%<br>Aluminum<br>Braids<br>3.0Ω/M'<br>9.8Ω/km | .407<br>x<br>.560 | 10.34<br>x<br>14.22 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
| Sweep tested 5 MHz to 1 GHz. |        |      |       |      |      |                                                            |      |      |                                                                     |                   |                     |    |     |      |      |                           |



.072" (1.83mm) galvanized steel messenger.

##### Gas-injected Foam Polyethylene Insulation • Black Polyethylene Jacket

|                                                                                    |       |      |       |      |      |                                                            |      |      |                                                                     |      |       |    |     |      |      |                           |
|------------------------------------------------------------------------------------|-------|------|-------|------|------|------------------------------------------------------------|------|------|---------------------------------------------------------------------|------|-------|----|-----|------|------|---------------------------|
| Burial<br>80°C                                                                     | 1618A | 1000 | 304.8 | 61.0 | 27.7 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond IV<br>60% & 40%<br>Aluminum<br>Braids<br>3.0Ω/M'<br>9.8Ω/km | .407 | 10.34 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
|  |       |      |       |      |      |                                                            |      |      |                                                                     |      |       |    |     |      |      |                           |
| Sweep tested 5 MHz to 1 GHz.                                                       |       |      |       |      |      |                                                            |      |      |                                                                     |      |       |    |     |      |      |                           |



CoreGuard®

#### Series 11 • 14 AWG Solid .064" Bare Copper-covered Steel • Duofoil® + Tinned Copper Braids Shield

##### Plenum • Foam FEP Insulation • Snow Beige FEP Jacket

|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      |      |     |      |
|--------------------------------|-------|-------------------------------------|------|-------|------|------|------------------------------------------------------------------------------|------|------|--------------------------------------------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
| 200°C                          | 1153A | NEC:<br>CMP CL2P<br>CEC:<br>CMP FT6 | 500† | 152.4 | 52.5 | 23.9 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0 $\Omega$ /M'<br>36.1 $\Omega$ /km | .280 | 7.11 | (2) Duofoil<br>Shields<br>+ (2) TC<br>Braids<br>1.8 $\Omega$ /M'<br>5.9 $\Omega$ /km | .387 | 9.83 | 75 | 82% | 16.2 | 53.1 | 1    | 2   | .7   |
| Sweep tested 5 MHz to 400 MHz. |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 10   | 4   | 1.3  |
|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 50   | 1.2 | 3.9  |
|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 100  | 1.7 | 5.6  |
|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 200  | 2.5 | 8.2  |
|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 400  | 3.5 | 11.5 |
|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 700  | 4.6 | 15.1 |
|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 900  | 5.3 | 17.4 |
|                                |       |                                     |      |       |      |      |                                                                              |      |      |                                                                                      |      |      |    |     |      |      | 1000 | 5.6 | 18.4 |

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1.

\* Duobond IV = Duobond II + 60% aluminum braid + Duofoil tape + 40% aluminum braid.

† Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

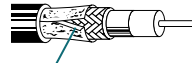
## Broadband Coax

### Headend/Video Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### 20 AWG Solid .032" Silver-plated, Copper-covered Steel • Duobond Plus® + 95% Aluminum Braid Shield

##### Gas-injected Foam Polyethylene Insulation • PVC Jacket (Available in 12 colors)\*

|                                                                                   |      |                                         |                              |       |      |      |                                                             |      |      |                                                                   |      |      |    |     |      |      |                           |
|-----------------------------------------------------------------------------------|------|-----------------------------------------|------------------------------|-------|------|------|-------------------------------------------------------------|------|------|-------------------------------------------------------------------|------|------|----|-----|------|------|---------------------------|
| 80°C                                                                              | 9167 | NEC:<br>CATVR<br>CMR<br>CEC:<br>CMR FT4 | 1000 *                       | 304.8 | 28.0 | 12.7 | 20 AWG<br>(solid)<br>.032"<br>SPCCS<br>25.8Ω/M'<br>84.6Ω/km | .144 | 3.66 | Duobond Plus<br>+ 95%<br>Aluminum<br>Braid<br>4.5Ω/M'<br>14.8Ω/km | .242 | 6.15 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88 |
|  |      |                                         | Sweep tested 5 MHz to 1 GHz. |       |      |      |                                                             |      |      |                                                                   |      |      |    |     |      |      |                           |

Shorting Fold

\*Available in Black, Gray, White, Red, Blue, Yellow, Brown, Orange, Green, Violet, Tan, or Pink.

#### 20 AWG Solid .032" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

##### Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)\*

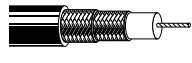
|                                                                                   |              |                                |                                                                                                                                               |                          |                       |                     |                                                          |      |      |                                                     |      |      |    |     |      |      |                                                                                                  |                                                                                               |                                                                                                         |
|-----------------------------------------------------------------------------------|--------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|---------------------|----------------------------------------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| SDI/HDTV<br>Digital Video<br>75°C                                                 | <b>1505A</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500*<br>1000*<br>5000*                                                                                                                        | 152.4<br>304.8<br>1524.0 | 17.5<br>36.0<br>165.4 | 8.0<br>16.4<br>75.2 | 20 AWG<br>(solid)<br>.032"<br>BC<br>10.0Ω/M'<br>32.8Ω/km | .145 | 3.68 | Duofoil<br>+ 95%<br>TC Braid<br>3.8Ω/M'<br>12.5Ω/km | .234 | 5.94 | 75 | 83% | 16.3 | 53.5 | 1<br>3.6<br>10<br>71.5<br>135<br>270<br>360<br>540<br>720<br>750<br>1000<br>1500<br>2250<br>3000 | .3<br>.6<br>.9<br>2.1<br>2.7<br>3.8<br>4.4<br>5.5<br>6.4<br>6.5<br>7.6<br>9.3<br>11.6<br>13.4 | 1.0<br>1.8<br>2.9<br>6.9<br>8.9<br>12.5<br>14.4<br>18.0<br>21.0<br>21.3<br>24.9<br>30.5<br>38.0<br>44.0 |
|  |              |                                | For Plenum version of 1505A, see 1506A.<br>Also available in bundled versions. See 7794A through 7798A.<br>100% Sweep tested. 5 MHz to 3 GHz. |                          |                       |                     |                                                          |      |      |                                                     |      |      |    |     |      |      |                                                                                                  |                                                                                               |                                                                                                         |

\*500 ft. put-up available in Black, Red or Blue only.

\*1000 ft. and 5000 ft. put-ups available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

#### 22 AWG Stranded (7x29) .031" Bare Compacted Copper\* • Double Tinned Copper Braid Shield

##### Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White or Violet)

|                                                                                     |                     |                          |                                    |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      |                                                                                                  |                                                                                                 |                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------|--------------------------|------------------------------------|-------|------|------|----------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| High-Flex<br>SDI/HDTV<br>Video Patch<br>75°C                                        | <b>1505F</b><br>new | NEC:<br>CM<br>CEC:<br>CM | 1000                               | 304.8 | 44.0 | 20.0 | 22 AWG<br>(7x29)<br>.031"<br>BCC<br>12.2Ω/M'<br>40.0Ω/km | .145 | 3.68 | TC Double<br>Braid<br>95% Shield<br>Coverage<br>2.4Ω/M'<br>7.8Ω/km | .242 | 6.15 | 75 | 80% | 17.0 | 55.7 | 1<br>3.6<br>10<br>71.5<br>135<br>270<br>360<br>540<br>720<br>750<br>1000<br>1500<br>2250<br>3000 | .2<br>.5<br>.9<br>2.5<br>3.5<br>5.1<br>6.0<br>7.4<br>8.7<br>8.9<br>10.5<br>13.3<br>16.9<br>20.3 | .7<br>1.6<br>2.9<br>8.2<br>11.5<br>16.7<br>19.7<br>24.3<br>28.5<br>29.2<br>34.4<br>43.6<br>55.4<br>66.6 |
|  |                     |                          | 100% Sweep tested. 5 MHz to 3 GHz. |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      |                                                                                                  |                                                                                                 |                                                                                                         |

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • SPC = Silver-plated Copper • SPCCS = Silver-plated, Copper-covered Steel • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

## Broadband Coax

### Headend/Video Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### 20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield

| Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Light Blue, White, Orange or Black) |      |                                      |       |      |      |          |      |      |            |                             |      |    |     |      |      |      |     |      |  |
|---------------------------------------------------------------------------------------------------------------------|------|--------------------------------------|-------|------|------|----------|------|------|------------|-----------------------------|------|----|-----|------|------|------|-----|------|--|
| 80°C                                                                                                                | 8281 | 500 <sup>▲</sup>                     | 152.4 | 37.0 | 16.8 | 20 AWG   | .198 | 5.03 | TC Double  | .305                        | 7.75 | 75 | 66% | 21.0 | 68.9 | 1    | .3  | .8   |  |
|                                     |      | 1000                                 | 304.8 | 74.0 | 33.6 | (solid)  |      |      | Braid      |                             |      |    |     |      |      | 3.6  | .5  | 1.8  |  |
|                                                                                                                     |      |                                      |       |      |      | .031"    |      |      | 98% Shield |                             |      |    |     |      |      | 10.0 | .8  | 2.6  |  |
|                                                                                                                     |      |                                      |       |      |      | BC       |      |      | Coverage   |                             |      |    |     |      |      | 71.5 | 2.1 | 6.9  |  |
|                                                                                                                     |      |                                      |       |      |      | 9.9Ω/M'  |      |      | 1.1Ω/M'    | For Plenum version of 8281, |      |    |     |      |      | 135  | 3.0 | 9.8  |  |
|                                                                                                                     |      |                                      |       |      |      | 32.5Ω/km |      |      | 3.6Ω/km    | see 88281.                  |      |    |     |      |      | 270  | 4.3 | 14.1 |  |
|                                                                                                                     |      |                                      |       |      |      |          |      |      |            |                             |      |    |     |      |      | 360  | 5.1 | 16.6 |  |
|                                                                                                                     |      |                                      |       |      |      |          |      |      |            |                             |      |    |     |      |      | 540  | 6.3 | 20.7 |  |
|                                                                                                                     |      |                                      |       |      |      |          |      |      |            |                             |      |    |     |      |      | 720  | 7.4 | 24.3 |  |
|                                                                                                                     |      |                                      |       |      |      |          |      |      |            |                             |      |    |     |      |      | 750  | 7.6 | 24.9 |  |
|                                                                                                                     |      |                                      |       |      |      |          |      |      |            |                             |      |    |     |      |      | 1000 | 9.2 | 30.2 |  |
|                                                                                                                     |      | 100% Sweep tested. 5 MHz to 850 MHz. |       |      |      |          |      |      |            |                             |      |    |     |      |      |      |     |      |  |
| ▲500 ft. put-up not available in White.                                                                             |      |                                      |       |      |      |          |      |      |            |                             |      |    |     |      |      |      |     |      |  |

<sup>▲</sup>500 ft. put-up not available in White.

#### Flame-retardant Semi-foam Polyethylene Insulation • PVC Jacket (Available in 10 colors)\*

|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     |      |      |      |
|------------|--------------------------------------------------------------------------------------------------|---------|------|-------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|---|--------------------------------------|----|--|--|--|--|--|--|--|-----|------|------|------|
| UL AWM     | <b>8281B</b><br> | NEC:    | 1000 | 304.8 | 85.0 | 38.6 | 20 AWG<br>(solid)<br>.031"<br>BC<br>9.9Ω/M'<br>32.5Ω/km | .198 | 5.03 | TC Double<br>Braid<br>98% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .305 | 7.75 | 75 | 66% | 21.0 | 68.9 | 1 | .3                                   | .8 |  |  |  |  |  |  |  |     |      |      |      |
| Style 1354 |                                                                                                  | CMR     |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  | 3.6 | .5   | 1.8  |      |
| (30V 80°C) |                                                                                                  | CEC:    |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 10.0 | .8   | 2.6  |
|            |                                                                                                  | CMG FT4 |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 71.5 | 2.1  | 6.9  |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 135  | 3.0  | 9.8  |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 270  | 4.4  | 14.4 |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 360  | 5.1  | 16.6 |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 540  | 6.6  | 21.5 |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 720  | 7.8  | 25.4 |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 750  | 8.0  | 26.2 |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   |                                      |    |  |  |  |  |  |  |  |     | 1000 | 10.2 | 33.5 |
|            |                                                                                                  |         |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |   | 100% Sweep tested. 5 MHz to 850 MHz. |    |  |  |  |  |  |  |  |     |      |      |      |

•8281B available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.

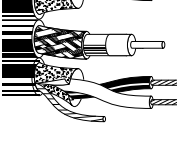
\*8281B available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.

#### 22 AWG Stranded (7x29) .031" Bare Compacted Copper\* • Double Tinned Copper Braid Shield

| Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)                                     |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   |      |      |      |
|------------------------------------------------------------------------------------------------------------------|-------|------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|---|------|------|------|
| <div>High-Flex<br/>60°C</div>  | 8281F | 500* | 152.4 | 32.0 | 14.5 | 22 AWG   | .193 | 4.90 | TC Double  | .305 | 7.75 | 75 | 66% | 21.0 | 68.9 | 1 | .3   | .9   |      |
|                                                                                                                  |       | 1000 | 304.8 | 65.0 | 29.5 | (7x29)   |      |      | Braid      |      |      |    |     |      |      |   | 3.6  | .5   | 1.7  |
|                                                                                                                  |       |      |       |      |      | .031"    |      |      | 98% Shield |      |      |    |     |      |      |   | 10.0 | .9   | 2.9  |
|                                                                                                                  |       |      |       |      |      | BCC      |      |      | Coverage   |      |      |    |     |      |      |   | 71.5 | 2.5  | 8.0  |
|                                                                                                                  |       |      |       |      |      | 12.2Ω/M' |      |      | 1.7Ω/M'    |      |      |    |     |      |      |   | 135  | 3.6  | 11.6 |
|                                                                                                                  |       |      |       |      |      | 40.0Ω/km |      |      | 5.6Ω/km    |      |      |    |     |      |      |   | 270  | 5.1  | 16.7 |
|                                                                                                                  |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   | 360  | 6.0  | 19.7 |
|                                                                                                                  |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   | 540  | 7.4  | 24.3 |
|                                                                                                                  |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   | 720  | 8.7  | 28.5 |
|                                                                                                                  |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   | 750  | 8.9  | 29.2 |
|                                                                                                                  |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   | 1000 | 10.5 | 34.4 |
| 100% Sweep tested. 5 MHz to 850 MHz.                                                                             |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   |      |      |      |
| *500 ft. put-up available in Black only.                                                                         |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |   |      |      |      |

\*500 ft. put-up available in Black only.

#### Composite Cable: 20 AWG Coax with Duobond® + TC Braid • (2) 22 AWG Stranded (7x30) Twisted Pairs Individually Beldfoil® Shielded

| Gas-injected Foam Polyethylene (Coax) and Polyolefin (Pairs) Insulation • PVC Jacket (Available in 10 colors) <sup>†</sup> |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|------|------|-------|------|------|-----------|----------|----------|------------|------|------|-------|-----|------|------|------|-----|------|--|
| <br>Siamese<br>Construction<br>80°C      | 7721A<br><b>new</b> | NEC: | 500  | 152.4 | 32.0 | 14.5 | 1 Coax:   | .145     | 3.68     | Duobond II | .235 | 5.97 | 75    | 83% | 16.2 | 53.1 | 1    | .3  | 1.0  |  |
|                                                                                                                            |                     | CATV | 1000 | 304.8 | 64.0 | 29.1 | Series 59 | Coax OD: | + 95% TC | x          | x    |      |       |     |      |      | 4    | .6  | 1.8  |  |
|                                                                                                                            |                     | CM   |      |       |      |      | 20 AWG    | .235     | 5.97     | Braid      |      |      | 12.98 |     |      |      | 10   | .9  | 2.9  |  |
|                                                                                                                            |                     | CEC: |      |       |      |      | (solid)   |          |          | 3.5Ω/M'    |      |      |       |     |      |      | 55   | 1.8 | 6.0  |  |
|                                                                                                                            |                     | CM   |      |       |      |      | .032"     |          |          | 11.5Ω/km   |      |      |       |     |      |      | 211  | 3.6 | 11.8 |  |
|                                                                                                                            |                     |      |      |       |      |      | SPC       |          |          |            |      |      |       |     |      |      | 450  | 5.3 | 17.5 |  |
|                                                                                                                            |                     |      |      |       |      |      | 10.1Ω/M'  |          |          |            |      |      |       |     |      |      | 550  | 5.9 | 19.4 |  |
|                                                                                                                            |                     |      |      |       |      |      | 33.1Ω/km  |          |          |            |      |      |       |     |      |      | 750  | 7.0 | 22.9 |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      | 870  | 7.5 | 24.7 |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      | 1000 | 8.1 | 26.5 |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |
|                                                                                                                            |                     |      |      |       |      |      |           |          |          |            |      |      |       |     |      |      |      |     |      |  |

<sup>†</sup>Available in Black, Red, Brown, Orange, Green, Yellow, Blue, Violet, Gray or White.

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • SPC = Silver-plated Copper • SPCCS = Silver-plated, Copper-covered Steel • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.



**DBS Cable**

Series 59 and Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**Series 59 • 20 AWG Solid .032" Bare Copper-covered Steel • Duobond® II + 40% Aluminum Braid Shield**

| Gas-injected Foam Polyethylene Insulation • Black PVC Jacket |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------|-------|-------------------------------|--------|---------|------|------|-------------------------------------------------------------|------|------|------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 80°C                                                         | 1830A | NEC:<br>CATV CM<br>CEC:<br>CM | U-1000 | U-304.8 | 24.0 | 10.9 | 20 AWG<br>(solid)<br>.032"<br>BCCS<br>44.5Ω/M'<br>146.0Ω/km | .144 | 3.66 | Duobond II<br>+ 40%<br>Aluminum<br>Braid<br>17.0Ω/M'<br>55.8Ω/km | .237 | 6.02 | 75 | 83% | 16.2 | 53.1 | 5    | .8   | 2.5  |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 55   | 1.8  | 6.0  |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 211  | 3.4  | 11.0 |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 500  | 5.2  | 17.1 |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 750  | 6.5  | 21.4 |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 862  | 7.0  | 22.9 |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 1000 | 7.7  | 25.2 |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 1450 | 9.3  | 30.5 |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 1800 | 10.3 | 33.8 |
|                                                              |       |                               |        |         |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 2250 | 11.9 | 39.0 |

**Series 6 • 18 AWG Solid .040" Bare Copper or Bare Copper-covered Steel Cond. (see below) • Duobond II + 60% Aluminum Braid Shield**

| Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black, Gray or White) |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------|-------|-------------------------------|---------------------|---------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 80°C                                                                          | 1829A | NEC:<br>CATV CM<br>CEC:<br>CM | U-1000 <sup>▲</sup> | U-304.8 | 31.0 | 14.1 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 | 5    | .5   | 1.6  |
|                                                                               |       |                               | 1000 <sup>▲</sup>   | 304.8   | 31.0 | 14.1 |                                                            |      |      |                                                                 |      |      |    |     |      |      | 55   | 1.4  | 4.6  |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 211  | 2.6  | 8.5  |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 500  | 4.1  | 13.5 |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 750  | 5.1  | 16.7 |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 862  | 5.5  | 18.0 |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 1000 | 6.0  | 19.7 |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 1450 | 7.9  | 25.9 |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 1800 | 8.4  | 27.6 |
|                                                                               |       |                               |                     |         |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 2250 | 10.1 | 33.1 |

\*1000 ft. and U-1000 ft. put-ups also available in Beige.

|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      |      |      |      |
|------|--------|-------------------------------|--------|---------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 80°C | 1829AC | NEC:<br>CATV CM<br>CEC:<br>CM | U-1000 | U-304.8 | 31.0 | 14.1 | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 | 5    | .5   | 1.6  |
|      |        |                               | 1000   | 304.8   | 31.0 | 14.1 |                                                         |      |      |                                                                 |      |      |    |     |      |      | 55   | 1.4  | 4.6  |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 211  | 2.6  | 8.5  |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 500  | 4.1  | 13.5 |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 750  | 5.1  | 16.7 |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 862  | 5.5  | 18.0 |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 1000 | 6.0  | 19.7 |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 1450 | 7.9  | 25.9 |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 1800 | 8.4  | 27.6 |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 2250 | 10.1 | 33.1 |
|      |        |                               |        |         |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 3000 | 11.0 | 36.1 |

| Gas-injected Foam Polyethylene Insulation • Black Polyethylene Jacket |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------|------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| Burial                                                                | 1829B      |  | 1000 | 304.8 | 27.0 | 12.3 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 | 5    | .5   | 1.6  |
| 80°C                                                                  | <b>new</b> |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 55   | 1.4  | 4.6  |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 211  | 2.6  | 8.5  |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 500  | 4.1  | 13.5 |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 750  | 5.1  | 16.7 |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 862  | 5.5  | 18.0 |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 1000 | 6.0  | 19.7 |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 1450 | 7.9  | 25.9 |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 1800 | 8.4  | 27.6 |
|                                                                       |            |  |      |       |      |      |                                                            |      |      |                                                                 |      |      |    |     |      |      | 2250 | 10.1 | 33.1 |

|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      |      |      |      |
|--------|------------|--|------|-------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| Burial | 1829BC     |  | 1000 | 304.8 | 28.0 | 12.7 | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 | 5    | .5   | 1.6  |
| 80°C   | <b>new</b> |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 55   | 1.4  | 4.6  |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 211  | 2.6  | 8.5  |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 500  | 4.1  | 13.5 |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 750  | 5.1  | 16.7 |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 862  | 5.5  | 18.0 |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 1000 | 6.0  | 19.7 |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 1450 | 7.9  | 25.9 |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 1800 | 8.4  | 27.6 |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 2250 | 10.1 | 33.1 |
|        |            |  |      |       |      |      |                                                         |      |      |                                                                 |      |      |    |     |      |      | 3000 | 11.0 | 36.1 |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

## DBS Cable

## Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**Series 6 • 18 AWG Solid .040" Bare Copper or Bare Copper-covered Steel Cond. (see below) • Duobond® II + 60% AL Braid Shield (cont'd)**

### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|      |              |  |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |                                                                     |                                                                    |                                                                           |
|------|--------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| 80°C | <b>1839A</b> |  | 1000 | 304.8 | 42.0 | 19.1 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270<br>x<br>.405 | 6.86<br>x<br>10.29 | 75 | 83% | 16.2 | 53.1 | 5<br>55<br>211<br>500<br>750<br>862<br>1000<br>1450<br>1800<br>2250 | .5<br>1.4<br>2.6<br>4.1<br>5.1<br>5.5<br>6.0<br>7.9<br>8.4<br>10.1 | 1.6<br>4.6<br>8.5<br>13.5<br>16.7<br>18.0<br>19.7<br>25.9<br>27.6<br>33.1 |
|------|--------------|--|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|



.045" (1.14mm) copper-covered steel, static ground.

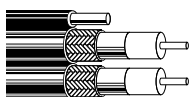
|      |                                     |  |                   |       |      |      |                                                         |      |      |                                                                 |                   |                    |    |     |      |      |                                                                             |                                                                            |                                                                                   |
|------|-------------------------------------|--|-------------------|-------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 80°C | <b>1839AC</b><br><small>new</small> |  | 1000 <sup>▲</sup> | 304.8 | 43.0 | 19.5 | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .270<br>x<br>.405 | 6.86<br>x<br>10.29 | 75 | 83% | 16.2 | 53.1 | 5<br>55<br>211<br>500<br>750<br>862<br>1000<br>1450<br>1800<br>2250<br>3000 | .5<br>1.4<br>2.6<br>4.1<br>5.1<br>5.5<br>6.0<br>7.9<br>8.4<br>10.1<br>11.0 | 1.6<br>4.6<br>8.5<br>13.5<br>16.7<br>18.0<br>19.7<br>25.9<br>27.6<br>33.1<br>36.1 |
|------|-------------------------------------|--|-------------------|-------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

<sup>▲</sup>1000 ft. put-up also available in Gray or White.

.045" (1.14mm) copper-covered steel static ground.

### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|      |              |  |             |                |              |              |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |                                                                     |                                                                    |                                                                           |
|------|--------------|--|-------------|----------------|--------------|--------------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| 80°C | <b>1840A</b> |  | 500<br>1000 | 152.4<br>304.8 | 37.0<br>74.0 | 16.8<br>33.6 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .273<br>x<br>.703 | 6.93<br>x<br>17.86 | 75 | 83% | 16.2 | 53.1 | 5<br>55<br>211<br>500<br>750<br>862<br>1000<br>1450<br>1800<br>2250 | .5<br>1.4<br>2.6<br>4.1<br>5.1<br>5.5<br>6.0<br>7.9<br>8.4<br>10.1 | 1.6<br>4.6<br>8.5<br>13.5<br>16.7<br>18.0<br>19.7<br>25.9<br>27.6<br>33.1 |
|------|--------------|--|-------------|----------------|--------------|--------------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|



.045" (1.14mm) copper-covered steel static ground.

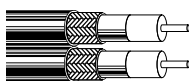
|      |                                     |  |                  |       |      |      |                                                         |      |      |                                                                 |                   |                    |    |     |      |      |                                                                             |                                                                            |                                                                                   |
|------|-------------------------------------|--|------------------|-------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 80°C | <b>1840AC</b><br><small>new</small> |  | 500 <sup>▲</sup> | 152.4 | 38.5 | 17.5 | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .273<br>x<br>.703 | 6.93<br>x<br>17.86 | 75 | 83% | 16.2 | 53.1 | 5<br>55<br>211<br>500<br>750<br>862<br>1000<br>1450<br>1800<br>2250<br>3000 | .5<br>1.4<br>2.6<br>4.1<br>5.1<br>5.5<br>6.0<br>7.9<br>8.4<br>10.1<br>11.0 | 1.6<br>4.6<br>8.5<br>13.5<br>16.7<br>18.0<br>19.7<br>25.9<br>27.6<br>33.1<br>36.1 |
|------|-------------------------------------|--|------------------|-------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

<sup>▲</sup>500 ft. put-up also available in Gray or White.

.045" (1.14mm) copper-covered steel static ground.

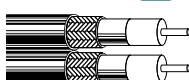
### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|      |              |                               |      |       |      |      |                                                            |      |      |                                                                 |                   |                    |    |     |      |      |                                                                     |                                                                    |                                                                           |
|------|--------------|-------------------------------|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| 80°C | <b>1841A</b> | NEC:<br>CATV CM<br>CEC:<br>CM | 1000 | 304.8 | 66.0 | 30.0 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .273<br>x<br>.595 | 6.93<br>x<br>15.11 | 75 | 83% | 16.2 | 53.1 | 5<br>55<br>211<br>500<br>750<br>862<br>1000<br>1450<br>1800<br>2250 | .5<br>1.4<br>2.6<br>4.1<br>5.1<br>5.5<br>6.0<br>7.9<br>8.4<br>10.1 | 1.6<br>4.6<br>8.5<br>13.5<br>16.7<br>18.0<br>19.7<br>25.9<br>27.6<br>33.1 |
|------|--------------|-------------------------------|------|-------|------|------|------------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|



### Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black, Gray or White)

|      |                                     |                               |     |       |      |      |                                                         |      |      |                                                                 |                   |                    |    |     |      |      |                                                                             |                                                                            |                                                                                   |
|------|-------------------------------------|-------------------------------|-----|-------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 80°C | <b>1841AC</b><br><small>new</small> | NEC:<br>CATV CM<br>CEC:<br>CM | 500 | 152.4 | 33.0 | 15.0 | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid<br>9.0Ω/M'<br>29.5Ω/km | .273<br>x<br>.595 | 6.93<br>x<br>15.11 | 75 | 83% | 16.2 | 53.1 | 5<br>55<br>211<br>500<br>750<br>862<br>1000<br>1450<br>1800<br>2250<br>3000 | .5<br>1.4<br>2.6<br>4.1<br>5.1<br>5.5<br>6.0<br>7.9<br>8.4<br>10.1<br>11.0 | 1.6<br>4.6<br>8.5<br>13.5<br>16.7<br>18.0<br>19.7<br>25.9<br>27.6<br>33.1<br>36.1 |
|------|-------------------------------------|-------------------------------|-----|-------|------|------|---------------------------------------------------------|------|------|-----------------------------------------------------------------|-------------------|--------------------|----|-----|------|------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|



AL = Aluminum • BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance



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1-800-527-0010

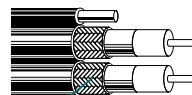
# DBS Cable

## Series 6

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel Conductor • Duobond® II + 60% Aluminum Braid Shield

#### Gas-injected Foam Polyethylene Insulation • Black Polyethylene Jacket

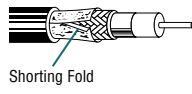
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Sweep tested 950 MHz to 2.25 GHz.

.045" (1.14mm) copper-covered steel static ground.

### Series 6 • 18 AWG Solid .040" Bare Copper Conductor • Duobond + Aluminum Braid(s) Shield

#### Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black or White)

|                                                                                                        |      |                     |         |        |         |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------|------|---------------------|---------|--------|---------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
|  <p>Shorting Fold</p> | 80°C | 7915A<br><b>new</b> | NEC:    | U-500  | U-152.4 | 16.0 | 7.3  | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180 | 4.57 | Duobond<br>Plus® + 80%<br>Aluminum<br>Braid<br>4.6Ω/M'<br>15.1Ω/km | .275 | 6.99 | 75 | 83% | 16.2 | 53.1 | 5    | .5   | 1.6  |
|                                                                                                        |      |                     | CATV CM | 500    | 152.4   | 18.0 | 8.2  |                                                         |      |      |                                                                    |      |      |    |     |      |      | 55   | 1.4  | 4.6  |
|                                                                                                        |      |                     | CEC:    | U-1000 | U-304.8 | 34.0 | 15.5 |                                                         |      |      |                                                                    |      |      |    |     |      |      | 211  | 2.6  | 8.5  |
|                                                                                                        |      |                     | CM      | 1000   | 304.8   | 34.0 | 15.5 |                                                         |      |      |                                                                    |      |      |    |     |      |      | 500  | 4.1  | 13.5 |
|                                                                                                        |      |                     |         |        |         |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 750  | 5.1  | 16.7 |
|                                                                                                        |      |                     |         |        |         |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 862  | 5.5  | 18.0 |
|                                                                                                        |      |                     |         |        |         |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 1000 | 6.0  | 19.7 |
|                                                                                                        |      |                     |         |        |         |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 1450 | 7.9  | 25.9 |
|                                                                                                        |      |                     |         |        |         |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 1800 | 8.4  | 27.6 |
|                                                                                                        |      |                     |         |        |         |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 2250 | 10.1 | 33.1 |

Sweep tested 5 MHz to 2.25 GHz.

|                                                                                     |      |                     |         |        |         |      |      |                                                         |      |      |                                                                          |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------------|------|---------------------|---------|--------|---------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
|  | 80°C | 7916A<br><b>new</b> | NEC:    | U-500  | U-152.4 | 18.0 | 8.2  | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180 | 4.57 | Duobond IV*<br>60% &<br>40%<br>Aluminum<br>Braids<br>4.8Ω/M'<br>15.7Ω/km | .298 | 7.57 | 75 | 83% | 16.2 | 53.1 | 5    | .5   | 1.6  |
|                                                                                     |      |                     | CATV CM | 500    | 152.4   | 20.0 | 9.1  |                                                         |      |      |                                                                          |      |      |    |     |      |      | 55   | 1.4  | 4.6  |
|                                                                                     |      |                     | CEC:    | U-1000 | U-304.8 | 37.0 | 16.8 |                                                         |      |      |                                                                          |      |      |    |     |      |      | 211  | 2.6  | 8.5  |
|                                                                                     |      |                     | CM      | 1000   | 304.8   | 37.0 | 16.8 |                                                         |      |      |                                                                          |      |      |    |     |      |      | 500  | 4.1  | 13.5 |
|                                                                                     |      |                     |         |        |         |      |      |                                                         |      |      |                                                                          |      |      |    |     |      |      | 750  | 5.1  | 16.7 |
|                                                                                     |      |                     |         |        |         |      |      |                                                         |      |      |                                                                          |      |      |    |     |      |      | 862  | 5.5  | 18.0 |
|                                                                                     |      |                     |         |        |         |      |      |                                                         |      |      |                                                                          |      |      |    |     |      |      | 1000 | 6.0  | 19.7 |
|                                                                                     |      |                     |         |        |         |      |      |                                                         |      |      |                                                                          |      |      |    |     |      |      | 1450 | 7.9  | 25.9 |
|                                                                                     |      |                     |         |        |         |      |      |                                                         |      |      |                                                                          |      |      |    |     |      |      | 1800 | 8.4  | 27.6 |
|                                                                                     |      |                     |         |        |         |      |      |                                                         |      |      |                                                                          |      |      |    |     |      |      | 2250 | 10.1 | 33.1 |

Sweep tested 5 MHz to 2.25 GHz.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

\*Duobond IV = Duobond II + 60% aluminum braid + Duofoil® tape + 40% aluminum braid.



# Standard Analog Video Cable

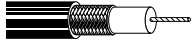
## 75 Ohm Miniature Coax



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 30 AWG Stranded (7x38) .012" Tinned Copper • 89% Tinned Copper Braid Shield

| Foam HDPE Insulation • Black PVC Jacket |      |  |       |         |     |     |           |      |      |            |      |      |    |     |      |      |      |      |      |
|-----------------------------------------|------|--|-------|---------|-----|-----|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                  | 9221 |  | 100   | 30.5    | 2.3 | 1.0 | 30 AWG    | .058 | 1.47 | TC Braid   | .097 | 2.46 | 75 | 78% | 17.3 | 56.8 | 1    | .7   | 2.3  |
| Style 1375                              |      |  | U-500 | U-152.4 | 3.5 | 1.6 | (7x38)    |      |      | 89% Shield |      |      |    |     |      |      | 4    | 1.3  | 4.3  |
| (30V 60°C)                              |      |  | 500   | 152.4   | 4.5 | 2.0 | .012"     |      |      | Coverage   |      |      |    |     |      |      | 5    | 1.6  | 5.2  |
|                                         |      |  |       |         |     |     | TC        |      |      | 11.7Ω/M'   |      |      |    |     |      |      | 10   | 2.2  | 7.2  |
|                                         |      |  |       |         |     |     | 100.0Ω/M' |      |      | 38.4Ω/km   |      |      |    |     |      |      | 50   | 5.1  | 16.7 |
|                                         |      |  |       |         |     |     | 328.0Ω/km |      |      |            |      |      |    |     |      |      | 100  | 7.3  | 23.9 |
|                                         |      |  |       |         |     |     |           |      |      |            |      |      |    |     |      |      | 200  | 10.5 | 34.4 |
|                                         |      |  |       |         |     |     |           |      |      |            |      |      |    |     |      |      | 400  | 15.5 | 50.9 |
|                                         |      |  |       |         |     |     |           |      |      |            |      |      |    |     |      |      | 1000 | 26.6 | 87.3 |



### 27 AWG Stranded (7x35) .017" Bare Copper-covered Steel • 93% Tinned Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket |      |  |        |         |      |     |           |      |      |            |      |      |    |     |      |      |      |      |      |
|--------------------------------------------|------|--|--------|---------|------|-----|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                     | 8218 |  | U-500  | U-152.4 | 8.0  | 3.6 | 27 AWG    | .100 | 2.54 | TC Braid   | .150 | 3.81 | 75 | 66% | 20.5 | 67.3 | 1    | 1.2  | 3.9  |
| Style 1354                                 |      |  | 500    | 152.4   | 8.0  | 3.6 | (7x35)    |      |      | 93% Shield |      |      |    |     |      |      | 10   | 2.4  | 7.9  |
| (30V 60°C)                                 |      |  | U-1000 | U-304.8 | 16.0 | 7.3 | .017"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 4.2  | 13.8 |
|                                            |      |  | 1000   | 304.8   | 16.0 | 7.3 | BCCS      |      |      | 5.7Ω/M'    |      |      |    |     |      |      | 100  | 5.7  | 18.7 |
|                                            |      |  |        |         |      |     | 120.0Ω/M' |      |      | 18.7Ω/km   |      |      |    |     |      |      | 200  | 8.3  | 27.2 |
|                                            |      |  |        |         |      |     | 393.7Ω/km |      |      |            |      |      |    |     |      |      | 400  | 12.1 | 39.7 |
|                                            |      |  |        |         |      |     |           |      |      |            |      |      |    |     |      |      | 700  | 16.5 | 54.1 |
|                                            |      |  |        |         |      |     |           |      |      |            |      |      |    |     |      |      | 900  | 19.0 | 62.3 |
|                                            |      |  |        |         |      |     |           |      |      |            |      |      |    |     |      |      | 1000 | 20.0 | 65.6 |



BCCS = Bare Copper-covered Steel • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper



By:



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1-800-527-0010

# Standard Analog Video Cable

## RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|--------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                          | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**23 AWG** Solid .023" Bare Copper or Bare Copper-covered Steel Conductor (see below) • 95% Bare Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket                                        |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------|------|------|--------|---------|--------|-------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                                                            | 8241 | NEC: | 100    | 30.5    | 5.0    | 2.3   | 23 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .6   | 2.0  |
| Style 1354                                                                        |      | CMX: | U-500  | U-152.4 | 20.5   | 9.3   | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
| (30V 75°C)                                                                        |      | CEC: | 500    | 152.4   | 22.5   | 10.2  | .023"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|  |      | CMX: | U-1000 | U-304.8 | 40.0   | 18.2  | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|                                                                                   |      |      | 1000   | 304.8   | 41.0   | 18.6  | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|                                                                                   |      |      | 2000   | 609.6   | 82.0   | 37.3  | 160.7Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|                                                                                   |      |      |        | 5000    | 1524.0 | 205.0 | 93.2      |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      | 900  | 11.1 |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |
|                                                                                   |      |      |        |         |        |       |           |      |      |            |      |      |    |     |      |      |      |      |      |

For Plenum versions of 8241, see 88241 or 82241.

\*U-1000 ft. put-up also available in Red, Yellow, Green, Lt. Blue, White or Orange.

| Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      |      |      |      |
|----------------------------------------------------------------------|-------|---------|--------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                                               | 8241A | NEC:    | U-1000 | U-304.8 | 42.0 | 19.1 | 23 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .6   | 2.0  |
| Style 1354                                                           |       | CMG     | 1000   | 304.8   | 43.0 | 19.5 | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 5    | .9   | 3.0  |
| (30V 75°C)                                                           |       | CEC:    |        |         |      |      | .023"     |      |      | Coverage   |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
|                                                                      |       | CMG FT4 |        |         |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|                                                                      |       |         |        |         |      |      | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|                                                                      |       |         |        |         |      |      | 160.7Ω/km |      |      |            |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 700  | 10.1 | 33.1 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 11.7 | 38.2 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 13.2 | 43.3 |

| Polyethylene Insulation • Black PVC Jacket |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |  |
|--------------------------------------------|-------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|--|
| UL AWM                                     | 8241B | NEC: | U-1000 | U-304.8 | 37.0 | 16.8 | 23 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .4   | 1.3  |  |
| Style 1354                                 |       | CM   | 1000   | 304.8   | 38.0 | 17.3 | (solid)  |      |      | 95% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |  |
| (30V 80°C)                                 |       | CEC: |        |         |      |      | .023"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |  |
|                                            |       | CM   |        |         |      |      | BC       |      |      | 2.9Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |  |
|                                            |       |      |        |         |      |      | 20.4Ω/M' |      |      | 9.5Ω/km    |      |      |    |     |      |      | 200  | 4.9  | 16.1 |  |
|                                            |       |      |        |         |      |      | 66.9Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |  |
|                                            |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |  |
|                                            |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 11.1 | 36.4 |  |
|                                            |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |  |

**22 AWG** Stranded (7x30) .030" Bare Copper • 95% Bare Copper Braid Shield

| Foam Polyethylene Insulation • PVC Jacket (Available in Matte Black, Red, Blue, Green, White, Gray or Yellow)     |       |      |       |      |      |          |      |      |            |      |      |    |     |      |      |     |     |      |  |
|-------------------------------------------------------------------------------------------------------------------|-------|------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|-----|-----|------|--|
| <div>High-Flex<br/>60°C</div>  | 8241F | 1000 | 304.8 | 34.0 | 15.5 | 22 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 78% | 17.3 | 56.8 | 1   | .3  | 1.0  |  |
|                                                                                                                   |       |      |       |      |      | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10  | .9  | 3.0  |  |
|                                                                                                                   |       |      |       |      |      | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50  | 2.1 | 6.9  |  |
|                                                                                                                   |       |      |       |      |      | BC       |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100 | 3.0 | 9.8  |  |
|                                                                                                                   |       |      |       |      |      | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200 | 4.5 | 14.8 |  |
|                                                                                                                   |       |      |       |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400 | 6.6 | 21.7 |  |
|                                                                                                                   |       | 700  | 8.9   | 29.2 |      |          |      |      |            |      |      |    |     |      |      |     |     |      |  |
|                                                                                                                   |       | 900  | 10.1  | 33.1 |      |          |      |      |            |      |      |    |     |      |      |     |     |      |  |
|                                                                                                                   |       | 1000 | 10.9  | 35.8 |      |          |      |      |            |      |      |    |     |      |      |     |     |      |  |

**23 AWG** Solid .023" Bare Copper-covered Steel Conductor • 97% Bare Copper Braid Shield

| Plenum • FEP Insulation • Black FEP Jacket                                          |       |         |                   |       |      |      |           |      |      |            |      |      |    |       |      |      |      |      |      |
|-------------------------------------------------------------------------------------|-------|---------|-------------------|-------|------|------|-----------|------|------|------------|------|------|----|-------|------|------|------|------|------|
| 200°C                                                                               | 88241 | NEC:    | 500 <sup>†</sup>  | 152.4 | 20.5 | 9.3  | 23 AWG    | .132 | 3.35 | BC Braid   | .190 | 4.83 | 75 | 69.5% | 19.5 | 64.0 | 1    | .5   | 1.6  |
|  |       | CMP     | 1000 <sup>†</sup> | 304.8 | 40.0 | 18.2 | (solid)   |      |      | 97% Shield |      |      |    |       |      |      | 10   | 1.0  | 3.3  |
|                                                                                     |       | CEC:    |                   |       |      |      | .023"     |      |      | Coverage   |      |      |    |       |      |      | 50   | 2.3  | 7.5  |
|                                                                                     |       | CMP FT6 |                   |       |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |       |      |      | 100  | 3.3  | 10.8 |
|                                                                                     |       |         |                   |       |      |      | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |       |      |      | 200  | 5.2  | 17.1 |
|                                                                                     |       |         |                   |       |      |      | 160.7Ω/km |      |      |            |      |      |    |       |      |      | 400  | 8.4  | 27.6 |
| Suitable for Outdoor and Direct Burial applications.                                |       |         |                   |       |      |      |           |      |      |            |      |      |    |       |      |      | 700  | 11.6 | 38.0 |
|                                                                                     |       |         |                   |       |      |      |           |      |      |            |      |      |    |       |      |      | 900  | 13.8 | 45.3 |
|                                                                                     |       |         |                   |       |      |      |           |      |      |            |      |      |    |       |      |      | 1000 | 14.8 | 48.5 |

Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                                |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      |      |      |      |
|-------------------------------------------------------------------------------------|-------|---------|---------|---------|------|------|-----------|------|------|------------|------|------|----|-------|------|------|------|------|------|
| 75°C                                                                                | 82241 | NEC:    | U-500†  | U-152.4 | 16.0 | 7.3  | 23 AWG    | .132 | 3.35 | BC Braid   | .190 | 4.83 | 75 | 69.5% | 19.5 | 64.0 | 1    | .5   | 1.6  |
|  |       | CMP     | U-1000† | U-304.8 | 32.0 | 14.5 | (solid)   |      |      | 97% Shield |      |      |    |       |      |      | 10   | 1.0  | 3.3  |
|                                                                                     |       | CEC:    | 1000†   | 304.8   | 32.0 | 14.5 | .023"     |      |      | Coverage   |      |      |    |       |      |      | 50   | 2.3  | 7.5  |
|                                                                                     |       | CMP FT6 |         |         |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |       |      |      | 100  | 3.3  | 10.8 |
|                                                                                     |       |         |         |         |      |      | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |       |      |      | 200  | 5.2  | 17.1 |
|                                                                                     |       |         |         |         |      |      | 160.7Ω/km |      |      |            |      |      |    |       |      |      | 400  | 8.4  | 27.6 |
|                                                                                     |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      | 700  | 11.6 | 38.0 |
|                                                                                     |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      | 900  | 13.8 | 45.3 |
|                                                                                     |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      | 1000 | 14.8 | 48.5 |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

# Standard Analog Video Cable

## RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 22 AWG Solid Bare Copper-covered Steel • Bare Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket |      |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      |      |      |      |
|--------------------------------------------|------|------|--------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                     | 8263 | NEC: | U-500  | U-152.4 | 19.5 | 8.9  | 23 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .6   | 2.0  |
| Style 1354                                 |      | CMX  | U-1000 | U-304.8 | 39.0 | 17.7 | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
| (30V 60°C)                                 |      | CEC: | 1000   | 304.8   | 38.0 | 17.3 | .023"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|                                            |      | CMX  |        |         |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|                                            |      |      |        |         |      |      | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|                                            |      |      |        |         |      |      | 160.7Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|                                            |      |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |
|                                            |      |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 11.1 | 36.4 |
|                                            |      |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |

Non-contaminating Black PVC Jacket.

|            |      |      |        |         |       |      |           |      |      |            |      |      |    |     |      |      |      |      |      |
|------------|------|------|--------|---------|-------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM     | 9244 | NEC: | U-500  | U-152.4 | 18.0  | 8.2  | 22 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 19.4 | 63.6 | 1    | .6   | 2.0  |
| Style 1354 |      | CMX  | U-1000 | U-304.8 | 36.0  | 16.4 | (solid)   |      |      | 85% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
| (30V 80°C) |      | CEC: | 1000   | 304.8   | 36.0  | 16.4 | .025"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|            |      | CMX  | 3280   | 1000.0  | 118.1 | 53.8 | BCCS      |      |      | 4.5Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|            |      |      |        |         |       |      | 50.0Ω/M'  |      |      | 14.8Ω/km   |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|            |      |      |        |         |       |      | 164.0Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|            |      |      |        |         |       |      |           |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |
|            |      |      |        |         |       |      |           |      |      |            |      |      |    |     |      |      | 900  | 11.1 | 36.4 |
|            |      |      |        |         |       |      |           |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |

### Foam Polyethylene Insulation • Black PVC Jacket

|      |      |  |        |         |      |      |           |      |      |            |      |      |    |     |      |      |      |     |      |
|------|------|--|--------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|-----|------|
| 75°C | 8221 |  | U-500  | U-152.4 | 18.5 | 8.4  | 22 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 80 | 78% | 16.3 | 53.5 | 1    | .4  | 1.4  |
|      |      |  | 500    | 152.4   | 18.5 | 8.4  | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9  | 3.0  |
|      |      |  | U-1000 | U-304.8 | 36.0 | 16.4 | .025"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.0 | 6.6  |
|      |      |  | 1000   | 304.8   | 36.0 | 16.4 | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 2.9 | 9.5  |
|      |      |  |        |         |      |      | 50.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.1 | 13.4 |
|      |      |  |        |         |      |      | 164.0Ω/km |      |      |            |      |      |    |     |      |      | 400  | 5.9 | 19.4 |
|      |      |  |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 700  | 7.8 | 25.6 |
|      |      |  |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 8.8 | 28.9 |
|      |      |  |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 9.9 | 32.5 |

### 22 AWG Stranded (7x30) .030" Bare Copper • 95% Bare Copper Braid Shield

| Foam Polyethylene Insulation • Black PVC Jacket |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                          | 9659 | NEC: | U-500  | U-152.4 | 18.0 | 8.2  | 22 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
| Style 1354                                      |      | CMX  | U-1000 | U-304.8 | 36.0 | 16.4 | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
| (30V 60°C)                                      |      | CEC: | 1000   | 304.8   | 36.0 | 16.4 | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
| VW-1                                            |      | CMX  |        |         |      |      | BC       |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                 |      |      |        |         |      |      | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                 |      |      |        |         |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                 |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|                                                 |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                 |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |

Non-contaminating PVC Jacket. For CCTV applications.

|            |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM     | 9259 | NEC: | 100    | 30.5    | 4.6  | 2.1  | 22 AWG   | .146 | 3.71 | BC Braid   | .241 | 6.12 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
| Style 1354 |      | CM   | U-500  | U-152.4 | 18.5 | 8.4  | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
| (30V 80°C) |      | CEC: | 500    | 152.4   | 20.5 | 9.3  | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|            |      | CM   | U-1000 | U-304.8 | 36.0 | 16.4 | BC       |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|            |      |      | 1000   | 304.8   | 36.0 | 16.4 | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|            |      |      |        |         |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.7 |
|            |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|            |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|            |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |

For CCTV applications.

### Plenum • Foam FEP Insulation • Black FEP Jacket

|       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|-------|-------|---------|-------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| 200°C | 89259 | NEC:    | 100   | 30.5  | 5.1  | 2.3  | 22 AWG   | .135 | 3.43 | BC Braid   | .193 | 4.90 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
|       |       | CMP     | 500†  | 152.4 | 18.0 | 8.2  | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
|       |       | CEC:    | 1000† | 304.8 | 34.0 | 15.5 | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|       |       | CMP FT6 |       |       |      |      | BC       |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|       |       |         |       |       |      |      | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|       |       |         |       |       |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.0  | 29.5 |
|       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 11.0 | 36.1 |

Suitable for Outdoor and Direct Burial applications.

### Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

|      |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|------|-------|---------|---------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| 75°C | 82259 | NEC:    | U-1000† | U-304.8 | 31.0 | 14.1 | 22 AWG   | .135 | 3.43 | BC Braid   | .193 | 4.90 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
|      |       | CMP     | 1000†   | 304.8   | 33.0 | 15.0 | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
|      |       | CEC:    |         |         |      |      | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|      |       | CMP FT6 |         |         |      |      | BC       |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|      |       |         |         |         |      |      | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|      |       |         |         |         |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|      |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.0  | 29.5 |
|      |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|      |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 11.0 | 36.1 |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.



By:

INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

# Standard Analog Video Cable

## RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

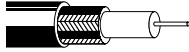
### 20 AWG Solid .032" Bare Copper-covered Steel • Bare Copper Braid Shield

| Foam Polyethylene Insulation • Black PVC Jacket                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------|------|--|-------------------|-------|------|------|----------------------------|------|------|-----------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                                              | 9240 |  | 1000 <sup>†</sup> | 304.8 | 30.0 | 13.6 | 20 AWG<br>(solid)<br>.032" | .143 | 3.63 | BC Braid<br>80% Shield<br>Coverage<br>5.6Ω/M'<br>18.4Ω/km | .241 | 6.12 | 75 | 78% | 17.3 | 56.7 | 1    | .6   | 2.0  |
|  |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 10   | 1.0  | 3.3  |
|                                                                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|                                                                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|                                                                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                                                   |      |  |                   |       |      |      |                            |      |      |                                                           |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |

| Foam Polyethylene Insulation • Black Polyethylene Jacket                          |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------|------|--|-------|---------|------|-----|----------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 80°C                                                                              | 8212 |  | U-500 | U-152.4 | 16.5 | 7.5 | 20 AWG<br>(solid)<br>.032" | .143 | 3.63 | BC Braid<br>95% Shield<br>Coverage<br>2.6Ω/M'<br>8.5Ω/km | .242 | 6.15 | 75 | 78% | 17.3 | 56.7 | 1    | .6   | 2.0  |
|  |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 10   | 1.0  | 3.3  |
|                                                                                   |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|                                                                                   |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                                                   |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                                                   |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                                                   |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|                                                                                   |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                                                   |      |  |       |         |      |     |                            |      |      |                                                          |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |

| Foam Polyethylene Insulation • Black PVC Jacket                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------|------|--------------------------|-----|-------|------|-----|----------------------------|------|------|-----------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 80°C                                                                              | 9274 | NEC:<br>CM<br>CEC:<br>CM | 500 | 152.4 | 16.5 | 7.5 | 20 AWG<br>(solid)<br>.032" | .143 | 3.63 | BC Braid<br>95% Shield<br>Coverage<br>3.5Ω/M'<br>11.5Ω/km | .240 | 6.10 | 75 | 78% | 17.3 | 56.7 | 1    | .6   | 2.0  |
|  |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 10   | 1.0  | 3.3  |
|                                                                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|                                                                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|                                                                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                                                   |      |                          |     |       |      |     |                            |      |      |                                                           |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |

### 20 AWG Solid .032" Bare Copper Conductor • 95% Bare Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black PVC Jacket                                |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      |      |     |      |
|-------------------------------------------------------------------------------------|-------|------------|--------|---------|------|------|----------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
| UL AWM<br>Style 1354<br>(30V 75°C)                                                  | 1426A | NEC:<br>CM | U-1000 | U-304.8 | 38.0 | 17.3 | 20 AWG<br>(solid)<br>.032" | .145 | 3.68 | BC Braid<br>95% Shield<br>Coverage<br>2.6Ω/M'<br>8.5Ω/km | .242 | 6.15 | 75 | 83% | 16.3 | 53.5 | 1    | .3  | 1.0  |
|  |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 10   | .9  | 3.0  |
|                                                                                     |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 50   | 1.9 | 6.2  |
|                                                                                     |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 100  | 2.6 | 8.5  |
|                                                                                     |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 200  | 3.6 | 11.8 |
|                                                                                     |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 400  | 5.0 | 16.4 |
|                                                                                     |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 700  | 7.0 | 23.0 |
|                                                                                     |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 900  | 8.0 | 26.3 |
|                                                                                     |       |            |        |         |      |      |                            |      |      |                                                          |      |      |    |     |      |      | 1000 | 8.5 | 27.9 |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±5% from length shown.

# Standard Analog Video Cable

## RG-6/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 21 AWG Solid .028" Bare Copper-covered Steel • Two Bare Copper Braids (97% Shield Coverage)

| Polyethylene Insulation • Black Polyethylene Jacket |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      |      |     |      |
|-----------------------------------------------------|--------------------|------|------|-------|------|------|-------------------------------------------------------------|------|------|------------------------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
|                                                     | MATV Cable<br>80°C | 8215 | 1000 | 304.8 | 74.0 | 33.6 | 21 AWG<br>(solid)<br>.028"<br>BCCS<br>32.0Ω/M'<br>105.0Ω/km | .185 | 4.70 | (2) BC<br>Braids<br>97% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .332 | 8.43 | 75 | 66% | 20.5 | 67.2 | 1    | 4   | 1.3  |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 10   | .8  | 2.6  |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 50   | 1.9 | 6.2  |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 100  | 2.7 | 8.9  |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 200  | 4.1 | 13.4 |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 400  | 5.9 | 19.4 |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 700  | 8.1 | 26.6 |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 900  | 9.4 | 30.8 |
|                                                     |                    |      |      |       |      |      |                                                             |      |      |                                                                  |      |      |    |     |      |      | 1000 | 9.8 | 32.1 |

### 18 AWG Solid .037" Bare Copper • Two Bare Copper Braids (98% Shield Coverage)

| Foam Polyethylene Insulation • Black PVC Jacket                                  |      |      |      |       |       |      |          |      |      |            |                                      |      |      |      |      |      |      |     |      |
|----------------------------------------------------------------------------------|------|------|------|-------|-------|------|----------|------|------|------------|--------------------------------------|------|------|------|------|------|------|-----|------|
| 80°C                                                                             | 9290 | NEC: | 1000 | 304.8 | 60.0  | 27.3 | 18 AWG   | .180 | 4.57 | (2) BC     | .288                                 | 7.32 | 75   | 78%  | 17.3 | 56.7 | 1    | .2  | .7   |
|  |      | CM   | 2000 | 609.6 | 120.0 | 54.5 | (solid)  |      |      | Braids     |                                      |      |      |      |      |      | 10   | .7  | 2.3  |
|                                                                                  |      | CEC: |      |       |       |      | .037"    |      |      | 98% Shield |                                      |      |      |      |      |      | 50   | 1.7 | 5.6  |
|                                                                                  |      | CM   |      |       |       |      | BC       |      |      | Coverage   |                                      |      |      |      |      |      | 100  | 2.5 | 8.2  |
|                                                                                  |      |      |      |       |       |      | 7.5Ω/M'  |      |      | 2.0Ω/M'    | 100% Sweep tested. 5 MHz to 450 MHz. |      |      |      |      |      | 200  | 3.6 | 11.8 |
|                                                                                  |      |      |      |       |       |      | 24.6Ω/km |      |      | 6.6Ω/km    |                                      | 400  | 5.3  | 17.4 |      |      |      |     |      |
|                                                                                  |      |      |      |       |       |      |          |      |      | 700        |                                      | 7.2  | 23.6 |      |      |      |      |     |      |
|                                                                                  |      |      |      |       |       |      |          |      |      |            |                                      |      |      |      |      |      | 900  | 8.3 | 27.2 |
|                                                                                  |      |      |      |       |       |      |          |      |      |            |                                      |      |      |      |      |      | 1000 | 8.8 | 28.9 |

### 18 AWG Solid .040" Bare Copper • Duofoil® + Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black PVC Jacket                               |                                    |      |      |        |         |       |      |          |      |      |          |      |                                                                                                 |     |     |      |      |      |      |      |
|------------------------------------------------------------------------------------|------------------------------------|------|------|--------|---------|-------|------|----------|------|------|----------|------|-------------------------------------------------------------------------------------------------|-----|-----|------|------|------|------|------|
|  | UL AWM<br>Style 1354<br>(30V 80°C) | 9248 | NEC: | U-500  | U-152.4 | 17.0  | 7.7  | 18 AWG   | .180 | 4.57 | Duofoil  | .270 | 6.86                                                                                            | 75  | 82% | 16.2 | 53.1 | 1    | .3   | 1.0  |
|                                                                                    |                                    |      | CM   | 500    | 152.4   | 18.0  | 8.2  | (solid)  |      |      | + 60% TC |      |                                                                                                 |     |     |      |      | 10   | .7   | 2.3  |
|                                                                                    |                                    |      | CEC: | U-1000 | U-304.8 | 33.0  | 15.0 | .040"    |      |      | Braid    |      |                                                                                                 |     |     |      |      | 50   | 1.5  | 4.9  |
|                                                                                    |                                    |      | CM   | 1000   | 304.8   | 33.0  | 15.0 | BC       |      |      | 5.6Ω/M'  |      | For Plenum versions of 9248,<br>see 89248 or 82248.<br><br>100% Sweep tested. 5 MHz to 450 MHz. |     |     |      |      | 100  | 2.0  | 6.6  |
|                                                                                    |                                    |      |      | 1640   | 500.0   | 55.8  | 25.3 | 6.4Ω/M'  |      |      | 18.4Ω/km |      |                                                                                                 | 200 | 2.8 | 9.2  |      |      |      |      |
|                                                                                    |                                    |      |      | 3280   | 1000.0  | 108.2 | 49.2 | 21.0Ω/km |      |      |          |      |                                                                                                 | 400 | 4.0 | 13.1 |      |      |      |      |
|                                                                                    |                                    |      |      |        |         |       |      |          |      | 700  | 5.3      | 17.4 |                                                                                                 |     |     |      |      |      |      |      |
|                                                                                    |                                    |      |      |        |         |       |      |          |      |      |          |      |                                                                                                 |     |     |      | 900  | 6.1  | 20.0 |      |
|                                                                                    |                                    |      |      |        |         |       |      |          |      |      |          |      |                                                                                                 |     |     |      |      | 1000 | 6.5  | 21.3 |

| Plenum • Foam FEP Insulation • Black FEP Jacket                                    |       |         |       |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|------------------------------------------------------------------------------------|-------|---------|-------|-------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|-----|------|
| 200°C                                                                              | 89248 | NEC:    | 500†  | 152.4 | 18.0 | 8.2  | 18 AWG   | .170 | 4.32 | Duofoil  | .222 | 5.64 | 75 | 82% | 16.2 | 53.1 | 1    | .3  | 1.0  |
|  |       | CMP     | 1000† | 304.8 | 36.0 | 16.4 | (solid)  |      |      | + 65% TC |      |      |    |     |      |      | 10   | .66 | 2.2  |
|                                                                                    |       | CEC:    | 2000† | 609.6 | 70.0 | 31.8 | .040"    |      |      | Braid    |      |      |    |     |      |      | 50   | 1.5 | 4.9  |
|                                                                                    |       | CMP FT6 |       |       |      |      | BC       |      |      | 5.1Ω/M'  |      |      |    |     |      |      | 100  | 2.1 | 6.9  |
|                                                                                    |       |         |       |       |      |      | 6.4Ω/M'  |      |      | 16.7Ω/km |      |      |    |     |      |      | 200  | 3.1 | 10.2 |
|                                                                                    |       |         |       |       |      |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 400  | 4.5 | 14.8 |
|                                                                                    |       |         |       |       |      |      |          |      |      |          |      |      |    |     |      |      | 700  | 6.0 | 19.7 |
|                                                                                    |       |         |       |       |      |      |          |      |      |          |      |      |    |     |      |      | 900  | 6.9 | 22.6 |
|                                                                                    |       |         |       |       |      |      |          |      |      |          |      |      |    |     |      |      | 1000 | 7.3 | 23.9 |
|                                                                                    |       |         |       |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
| Suitable for Outdoor and Direct Burial applications.                               |       |         |       |       |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |

Suitable for Outdoor and Direct Burial applications.

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket                          |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|------------------------------------------------------------------------------------|-------|---------|---------|---------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|-----|------|
| 75°C                                                                               | 82248 | NEC:    | U-1000† | U-304.8 | 32.0 | 14.5 | 18 AWG   | .170 | 4.32 | Duofoil  | .222 | 5.64 | 75 | 82% | 16.2 | 53.1 | 1    | .3  | 1.0  |
|  |       | CMP     | 1000†   | 304.8   | 33.0 | 15.0 | (solid)  |      |      | + 65% TC |      |      |    |     |      |      | 10   | .7  | 2.3  |
|                                                                                    |       | CEC:    |         |         |      |      | .040"    |      |      | Braid    |      |      |    |     |      |      | 50   | 1.6 | 5.2  |
|                                                                                    |       | CMP FT6 |         |         |      |      | BC       |      |      | 5.1Ω/M'  |      |      |    |     |      |      | 100  | 2.2 | 7.2  |
|                                                                                    |       |         |         |         |      |      | 6.4Ω/M'  |      |      | 16.7Ω/km |      |      |    |     |      |      | 200  | 3.0 | 9.8  |
|                                                                                    |       |         |         |         |      |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 400  | 4.6 | 15.1 |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      | 700  | 6.6 | 21.6 |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      | 900  | 7.7 | 25.3 |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      | 1000 | 8.2 | 26.9 |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |
|                                                                                    |       |         |         |         |      |      |          |      |      |          |      |      |    |     |      |      |      |     |      |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.



By:



INTERSTATE WIRE

INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

# Standard Analog Video Cable

## RG-11/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**18 AWG Stranded (7x26) .048" Tinned Copper • 97% Bare Copper Braid Shield**

| Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket                      |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      |      |     |      |
|-------------------------------------------------------------------------------------------|-------------|--------------------------|------|-------|-------|------|--------------------------------------------------------|------|------|----------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| 80°C<br> | <b>8238</b> | NEC:<br>CM<br>CEC:<br>CM | 500  | 152.4 | 59.0  | 26.8 | 18 AWG<br>(7x26)<br>.048"<br>TC<br>6.1Ω/M'<br>20.0Ω/km | .285 | 7.24 | BC Braid<br>97% Shield<br>Coverage<br>1.2Ω/M'<br>3.9Ω/km | .405 | 10.29 | 75 | 66% | 20.5 | 67.2 | 1    | .2  | .6   |
|                                                                                           |             |                          | 1000 | 304.8 | 117.0 | 53.2 |                                                        |      |      |                                                          |      |       |    |     |      |      | 10   | .7  | 2.2  |
|                                                                                           |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 50   | 1.3 | 4.3  |
|                                                                                           |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 100  | 2.0 | 6.6  |
|                                                                                           |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 200  | 2.9 | 9.5  |
|                                                                                           |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 400  | 4.2 | 13.8 |
|                                                                                           |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 700  | 5.8 | 19.0 |
|                                                                                           |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 900  | 6.8 | 22.3 |
|                                                                                           |             |                          |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 1000 | 7.1 | 23.3 |

| Polyethylene Insulation • Non-contaminating Black PVC Jacket                                      |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      |      |     |      |
|---------------------------------------------------------------------------------------------------|-------------|--|------|-------|-------|------|--------------------------------------------------------|------|------|----------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| 60°C<br>VW-1<br> | <b>8261</b> |  | 500  | 152.4 | 52.5  | 23.9 | 18 AWG<br>(7x26)<br>.048"<br>TC<br>6.1Ω/M'<br>20.0Ω/km | .285 | 7.24 | BC Braid<br>97% Shield<br>Coverage<br>1.2Ω/M'<br>3.9Ω/km | .405 | 10.29 | 75 | 66% | 20.5 | 67.2 | 1    | .2  | .6   |
|                                                                                                   |             |  | 1000 | 304.8 | 104.0 | 47.3 |                                                        |      |      |                                                          |      |       |    |     |      |      | 10   | .7  | 2.2  |
|                                                                                                   |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 50   | 1.3 | 4.3  |
|                                                                                                   |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 100  | 2.0 | 6.6  |
|                                                                                                   |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 200  | 2.9 | 9.5  |
|                                                                                                   |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 400  | 4.2 | 13.8 |
|                                                                                                   |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 700  | 5.8 | 19.0 |
|                                                                                                   |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 900  | 6.8 | 22.3 |
|                                                                                                   |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 1000 | 7.1 | 23.3 |

**14 AWG Solid .064" Bare Copper • Duofoil® + Tinned Copper Braid Shield**

| Gas-injected Foam HDPE Insulation • Black PVC Jacket                                       |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      |      |     |      |
|--------------------------------------------------------------------------------------------|-------------|--|------|-------|------|------|--------------------------------------------------------|------|------|----------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| 80°C<br> | <b>9292</b> |  | 1000 | 304.8 | 81.0 | 36.8 | 14 AWG<br>(solid)<br>.064"<br>BC<br>2.6Ω/M'<br>8.5Ω/km | .280 | 7.11 | Duofoil<br>+ 60% TC<br>Braid<br>3.0Ω/M'<br>9.8Ω/km | .405 | 10.29 | 75 | 84% | 16.1 | 52.8 | 1    | .2  | .6   |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 10   | .5  | 1.6  |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 50   | .9  | 3.0  |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 100  | 1.3 | 4.3  |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 200  | 1.6 | 5.3  |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 400  | 2.3 | 7.6  |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 700  | 3.3 | 10.8 |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 900  | 4.0 | 13.1 |
|                                                                                            |             |  |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 1000 | 4.3 | 14.1 |

| Plenum • Foam FEP Insulation • Black FEP Jacket                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      |      |     |      |
|----------------------------------------------------------------------------------------------|--------------|-----------------------------------------|-------|-------|------|------|--------------------------------------------------------|------|------|----------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
| 200°C<br> | <b>89292</b> | NEC:<br>CMP<br>CATVP<br>CEC:<br>CMP FT6 | 500†  | 152.4 | 39.5 | 18.0 | 14 AWG<br>(solid)<br>.064"<br>BC<br>2.5Ω/M'<br>8.2Ω/km | .274 | 6.96 | Duofoil<br>+ 63% TC<br>Braid<br>3.0Ω/M'<br>9.8Ω/km | .346 | 8.79 | 75 | 83% | 16.2 | 53.1 | 1    | .2  | .5   |
|                                                                                              |              |                                         | 1000† | 304.8 | 77.0 | 35.0 |                                                        |      |      |                                                    |      |      |    |     |      |      | 10   | .4  | 1.3  |
|                                                                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      | 50   | 1.0 | 3.3  |
|                                                                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      | 100  | 1.5 | 4.9  |
|                                                                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      | 200  | 2.2 | 7.2  |
|                                                                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      | 400  | 3.3 | 10.8 |
|                                                                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      | 700  | 4.5 | 14.8 |
|                                                                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      | 900  | 5.2 | 17.1 |
|                                                                                              |              |                                         |       |       |      |      |                                                        |      |      |                                                    |      |      |    |     |      |      | 1000 | 5.5 | 18.0 |

**14 AWG Solid .064" Bare Copper • 97% Bare Copper Braid Shield**

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket                               |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      |      |     |      |
|---------------------------------------------------------------------------------------------|-------------|--|------|-------|-------|------|--------------------------------------------------------|------|------|----------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| 80°C<br> | <b>8213</b> |  | 500  | 152.4 | 44.0  | 20.0 | 14 AWG<br>(solid)<br>.064"<br>BC<br>2.6Ω/M'<br>8.5Ω/km | .285 | 7.24 | BC Braid<br>97% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .405 | 10.29 | 75 | 84% | 16.1 | 52.8 | 1    | .2  | .6   |
|                                                                                             |             |  | 1000 | 304.8 | 87.0  | 39.5 |                                                        |      |      |                                                          |      |       |    |     |      |      | 10   | .4  | 1.1  |
|                                                                                             |             |  | 2000 | 609.6 | 172.0 | 78.2 |                                                        |      |      |                                                          |      |       |    |     |      |      | 50   | .9  | 3.0  |
|                                                                                             |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 100  | 1.3 | 4.3  |
|                                                                                             |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 200  | 1.9 | 6.2  |
|                                                                                             |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 400  | 2.9 | 9.5  |
|                                                                                             |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 700  | 4.1 | 13.5 |
|                                                                                             |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 900  | 4.8 | 15.7 |
|                                                                                             |             |  |      |       |       |      |                                                        |      |      |                                                          |      |       |    |     |      |      | 1000 | 5.2 | 17.1 |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

# Precision Video Cable for Analog and Digital

## Sub-Miniature RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 25 AWG Stranded (19x37) .021" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------|-------|--------------------------------|------|-------|------|-----|----------------------------------------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                                     | 1865A | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1000 | 304.8 | 16.0 | 7.3 | 25 AWG<br>(19x37)<br>.021"<br>BC<br>27.4Ω/M'<br>89.9Ω/km | .094 | 2.39 | Duofoil<br>+ 95%<br>TC Braid<br>5.4Ω/M'<br>17.7Ω/km | .150 | 3.81 | 75 | 82% | 16.5 | 54.1 | 1    | .5   | 1.5  |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 3.6  | 1.0  | 3.1  |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 10   | 1.6  | 5.2  |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 71.5 | 3.7  | 12.1 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 135  | 5.0  | 16.4 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 270  | 7.1  | 23.3 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 360  | 8.2  | 26.9 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 540  | 10.1 | 33.1 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 720  | 11.8 | 38.7 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 750  | 12.0 | 39.4 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 1000 | 13.9 | 45.6 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 1500 | 17.0 | 55.8 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 2250 | 20.8 | 68.2 |
|                                                                          |       |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 3000 | 24.0 | 78.7 |

100% Sweep tested. 5 MHz to 3 GHz.

### 23 AWG Solid .023" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------|-------|-----------------|---------------------|---------|------|-----|----------------------------------------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                 | 1855A | NEC:            | 500 <sup>▲</sup>    | 152.4   | 9.0  | 4.1 | 23 AWG<br>(solid)<br>.023"<br>BC<br>20.1Ω/M'<br>65.9Ω/km | .102 | 2.59 | Duofoil<br>+ 95%<br>TC Braid<br>7.6Ω/M'<br>24.9Ω/km | .159 | 4.03 | 75 | 83% | 16.3 | 53.5 | 1    | .4   | 1.3  |
| Digital Video                                                            |       | CMR             | 1000                | 304.8   | 18.0 | 8.2 |                                                          |      |      |                                                     |      |      |    |     |      |      |      |      |      |
| 75°C                                                                     |       | CEC:<br>CMG FT4 | U-1000 <sup>♦</sup> | U-304.8 | 18.0 | 8.2 |                                                          |      |      |                                                     |      |      |    |     |      |      |      |      |      |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 3.6  | .8   | 2.6  |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 10   | 1.2  | 3.9  |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 71.5 | 3.1  | 10.0 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 135  | 3.8  | 12.5 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 270  | 5.4  | 17.7 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 360  | 6.2  | 20.3 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 540  | 7.7  | 25.3 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 720  | 9.5  | 31.1 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 750  | 9.6  | 31.5 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 1000 | 10.5 | 34.4 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 1500 | 13.0 | 42.6 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 2250 | 16.0 | 52.5 |
|                                                                          |       |                 |                     |         |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      | 3000 | 18.5 | 60.7 |

<sup>▲</sup>500 ft. put-up available in Black only.

<sup>♦</sup>U-1000 ft. put-up available in Gray only.

BC = Bare Copper • DCR = DC Resistance • HDPE = Foam High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

\*Available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.



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**1-800-527-0010**

# Precision Video Cable for Analog and Digital

## RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 23 AWG Stranded (7x32) .023" Bare Compacted Copper\* • 95% Tinned Copper Braid Shield

| Polyethylene Insulation • Black Polyethylene Jacket                               |      |      |       |      |      |          |      |      |          |                                      |      |    |     |      |      |      |      |      |  |
|-----------------------------------------------------------------------------------|------|------|-------|------|------|----------|------|------|----------|--------------------------------------|------|----|-----|------|------|------|------|------|--|
| 80°C                                                                              | 8279 | 500  | 152.4 | 14.5 | 6.6  | 23 AWG   | .146 | 3.71 | TC       | .220                                 | 5.59 | 75 | 66% | 21.0 | 68.9 | 1    | .4   | 1.1  |  |
|  |      | 1000 | 304.8 | 28.0 | 12.7 | (7x32)   |      |      | + 95%    |                                      |      |    |     |      |      | 3.6  | .6   | 2.0  |  |
|                                                                                   |      |      |       |      |      | .023"    |      |      | Shield   |                                      |      |    |     |      |      | 10.0 | 1.2  | 3.9  |  |
|                                                                                   |      |      |       |      |      | BCC      |      |      | Coverage |                                      |      |    |     |      |      | 71.5 | 3.3  | 10.8 |  |
|                                                                                   |      |      |       |      |      | 19.1Ω/M' |      |      | 4.5Ω/M'  |                                      |      |    |     |      |      | 135  | 4.7  | 15.4 |  |
|                                                                                   |      |      |       |      |      | 62.6Ω/km |      |      | 14.8Ω/km | 100% Sweep tested. 5 MHz to 850 MHz. |      |    |     |      |      | 270  | 6.8  | 22.3 |  |
|                                                                                   |      |      |       |      |      |          |      |      |          |                                      |      |    |     |      |      | 360  | 8.0  | 26.2 |  |
|                                                                                   |      |      |       |      |      |          |      |      |          |                                      |      |    |     |      |      | 540  | 9.9  | 32.5 |  |
|                                                                                   |      |      |       |      |      |          |      |      |          |                                      |      |    |     |      |      | 720  | 11.6 | 38.0 |  |
|                                                                                   |      |      |       |      |      |          |      |      |          |                                      |      |    |     |      |      | 750  | 11.9 | 39.0 |  |
|                                                                                   |      |      |       |      |      |          |      |      |          |                                      |      |    |     |      |      | 1000 | 13.8 | 45.3 |  |

### 23 AWG Solid .022" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Polyethylene Insulation • Black Polyethylene Jacket                               |      |        |         |      |      |          |      |      |          |      |      |    |     |      |      |      |      |      |      |
|-----------------------------------------------------------------------------------|------|--------|---------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|------|
| 80°C                                                                              | 9209 | U-500  | U-152.4 | 15.0 | 6.8  | 23 AWG   | .146 | 3.71 | Duofoil  | .220 | 5.59 | 75 | 66% | 21.0 | 68.9 | 1    | .4   | 1.2  |      |
|  |      | U-1000 | U-304.8 | 29.0 | 13.2 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .5   | 1.8  |      |
|                                                                                   |      |        |         |      |      | .022"    |      |      | TC Braid |      |      |    |     |      |      | 10.0 | 1.2  | 3.8  |      |
|                                                                                   |      |        |         |      |      | BC       |      |      | 4.5Ω/M'  |      |      |    |     |      |      | 71.5 | 2.9  | 9.5  |      |
|                                                                                   |      |        |         |      |      | 20.4Ω/M' |      |      | 14.8Ω/km |      |      |    |     |      |      | 135  | 4.0  | 13.0 |      |
|                                                                                   |      |        |         |      |      | 66.9Ω/km |      |      |          |      |      |    |     |      |      | 270  | 5.6  | 18.4 |      |
|                                                                                   |      |        |         |      |      |          |      |      |          |      |      |    |     |      |      | 360  | 6.6  | 21.5 |      |
|                                                                                   |      |        |         |      |      |          |      |      |          |      |      |    |     |      |      | 540  | 8.3  | 27.2 |      |
|                                                                                   |      |        |         |      |      |          |      |      |          |      |      |    |     |      |      | 720  | 9.7  | 31.7 |      |
|                                                                                   |      |        |         |      |      |          |      |      |          |      |      |    |     |      |      | 750  | 9.9  | 32.5 |      |
| 100% Sweep tested. 5 MHz to 850 MHz.                                              |      |        |         |      |      |          |      |      |          |      |      |    |     |      |      |      | 1000 | 11.6 | 38.0 |

| Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket                |       |         |        |         |      |         |          |      |          |          |      |      |    |     |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------|-------|---------|--------|---------|------|---------|----------|------|----------|----------|------|------|----|-----|------|------|------|------|------|------|
| UL AWM                                                                              | 9209A | NEC:    | U-1000 | U-304.8 | 35.0 | 15.9    | 23 AWG   | .146 | 3.71     | Duofoil  | .220 | 5.59 | 75 | 66% | 20.5 | 67.2 | 1    | .4   | 1.2  |      |
| Style 1354                                                                          |       | CMR     |        |         |      | (solid) |          |      | + 95%    |          |      |      |    |     |      |      | 3.6  | .5   | 1.8  |      |
| (30V 75°C)                                                                          |       | CEC:    |        |         |      | .022"   |          |      | TC Braid |          |      |      |    |     |      |      | 10.0 | 1.2  | 3.8  |      |
|  |       | CMG FT4 |        |         |      |         | BC       |      |          | 4.5Ω/M'  |      |      |    |     |      |      |      | 71.5 | 2.9  | 9.5  |
|                                                                                     |       |         |        |         |      |         | 20.4Ω/M' |      |          | 14.8Ω/km |      |      |    |     |      |      |      | 135  | 4.0  | 13.0 |
|                                                                                     |       |         |        |         |      |         | 66.9Ω/km |      |          |          |      |      |    |     |      |      |      | 270  | 5.6  | 18.4 |
|                                                                                     |       |         |        |         |      |         |          |      |          |          |      |      |    |     |      |      |      | 360  | 6.6  | 21.5 |
|                                                                                     |       |         |        |         |      |         |          |      |          |          |      |      |    |     |      |      |      | 540  | 8.6  | 28.3 |
|                                                                                     |       |         |        |         |      |         |          |      |          |          |      |      |    |     |      |      |      | 720  | 10.1 | 33.2 |
|                                                                                     |       |         |        |         |      |         |          |      |          |          |      |      |    |     |      |      |      | 750  | 10.4 | 34.1 |
|                                                                                     |       |         |        |         |      |         |          |      |          |          |      |      |    |     |      | 1000 | 12.8 | 41.9 |      |      |
| 100% Sweep tested. 5 MHz to 850 MHz.                                                |       |         |        |         |      |         |          |      |          |          |      |      |    |     |      |      |      |      |      |      |

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.



# Precision Video Cable for Analog and Digital

## RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 20 AWG Solid .032" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------|-------|---------|--------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                 | 1505A | NEC:    | 500 ▲  | 152.4  | 17.5  | 8.0  | 20 AWG   | .145 | 3.68 | Duofoil  | .234 | 5.94 | 75 | 83% | 16.3 | 53.5 | 1    | .3   | 1.0  |
| Digital Video                                                            |       | CMR     | 1000 • | 304.8  | 36.0  | 16.4 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .6   | 1.8  |
| 75°C                                                                     |       | CEC:    | 5000 • | 1524.0 | 165.4 | 75.2 | .032"    |      |      | TC Braid |      |      |    |     |      |      | 10   | .9   | 2.9  |
|                                                                          |       | CMG FT4 |        |        |       |      | BC       |      |      | 3.8Ω/M'  |      |      |    |     |      |      | 71.5 | 2.1  | 6.9  |
|                                                                          |       |         |        |        |       |      | 10.0Ω/M' |      |      | 12.5Ω/km |      |      |    |     |      |      | 135  | 2.7  | 8.9  |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 270  | 3.8  | 12.5 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 360  | 4.4  | 14.4 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 540  | 5.5  | 18.0 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 720  | 6.4  | 21.0 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 750  | 6.5  | 21.3 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 1000 | 7.6  | 24.9 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 1500 | 9.3  | 30.5 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 2250 | 11.6 | 38.0 |
|                                                                          |       |         |        |        |       |      |          |      |      |          |      |      |    |     |      |      | 3000 | 13.4 | 44.0 |



▲500 ft. put-up available in Black, Red or Blue only.

•1000 ft. and 5000 ft. put-ups available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

▲500 ft. put-up available in Black, Red or Blue only.

◆1000 ft. and 5000 ft. put-ups available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

### 22 AWG Stranded (7x29) .031" Bare Compacted Copper\* • Double Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White or Violet)                                                |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      |      |                                    |      |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------|------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------------------------------------|------|--|--|
| <div>High-Flex<br/>SDI/HDTV<br/>Video Patch<br/>75°C</div> <div></div> | <div>1505F<br/><small>new</small></div> | NEC: | 1000 | 304.8 | 44.0 | 20.0 | 22 AWG   | .145 | 3.68 | TC Double  | .242 | 6.15 | 75 | 80% | 17.0 | 55.7 | 1    | .2                                 | .7   |  |  |
|                                                                                                                                                        |                                         | CM   |      |       |      |      | (7x29)   |      |      | Braid      |      |      |    |     |      |      | 3.6  | .5                                 | 1.6  |  |  |
|                                                                                                                                                        |                                         | CEC: |      |       |      |      | .031"    |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9                                 | 2.9  |  |  |
|                                                                                                                                                        |                                         | CM   |      |       |      |      | BCC      |      |      | Coverage   |      |      |    |     |      |      | 71.5 | 2.5                                | 8.2  |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      | 12.2Ω/M' |      |      | 2.4Ω/M'    |      |      |    |     |      |      | 135  | 3.5                                | 11.5 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      | 40.0Ω/km |      |      | 7.8Ω/km    |      |      |    |     |      |      | 270  | 5.1                                | 16.7 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 360  | 6.0                                | 19.7 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 540  | 7.4                                | 24.3 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 720  | 8.7                                | 28.5 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 750  | 8.9                                | 29.2 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 10.5                               | 34.4 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 1500 | 13.3                               | 43.6 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 2250 | 16.9                               | 55.4 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 3000 | 20.3                               | 66.6 |  |  |
|                                                                                                                                                        |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      |      | 100% Sweep tested. 5 MHz to 3 GHz. |      |  |  |
| *Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.                                    |                                         |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      |      |                                    |      |  |  |

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

### 20 AWG Solid .032" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Plenum • Foam FEP Insulation • Flamarrest® Jacket (Available in 10 colors)*                                            |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      |                                    |      |      |      |
|------------------------------------------------------------------------------------------------------------------------|--------------|---------|--------|-------|------|----------|----------|------|------|----------|------|------|----|-----|------|------|------------------------------------|------|------|------|
| SDI/HDTV                                                                                                               | <b>1506A</b> | NEC:    | 500†▼  | 152.4 | 16.5 | 7.5      | 20 AWG   | .133 | 3.38 | Duofoil  | .199 | 5.05 | 75 | 84% | 16.1 | 52.8 | 1                                  | .3   | 1.0  |      |
| Digital Video                                                                                                          |              | CMP     | 1000†* | 304.8 | 33.0 | 15.0     | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6                                | .6   | 2.0  |      |
| 75°C                                                                                                                   |              | CEC:    |        |       |      |          | .032"    |      |      | TC Braid |      |      |    |     |      |      | 10                                 | 1.1  | 3.4  |      |
|                                      |              | CMP FT6 |        |       |      |          | BC       |      |      | 3.8Ω/M'  |      |      |    |     |      |      | 71.5                               | 2.3  | 7.4  |      |
|                                                                                                                        |              |         |        |       |      |          | 10.0Ω/M' |      |      | 10.5Ω/km |      |      |    |     |      |      |                                    | 135  | 3.2  | 10.5 |
|                                                                                                                        |              |         |        |       |      | 32.8Ω/km |          |      |      |          |      |      |    |     |      |      | 270                                | 4.6  | 14.9 |      |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      |                                    | 360  | 5.3  | 17.2 |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      |                                    | 540  | 6.4  | 21.0 |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      | 720                                | 7.3  | 23.9 |      |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      | 750                                | 7.5  | 24.6 |      |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      | 1000                               | 9.4  | 30.8 |      |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      | 1500                               | 12.8 | 42.0 |      |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      | 2250                               | 17.5 | 57.4 |      |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      | 3000                               | 21.9 | 71.8 |      |
|                                                                                                                        |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      | 100% Sweep tested. 5 MHz to 3 GHz. |      |      |      |
| Suitable for Outdoor and Direct Burial applications.                                                                   |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      |                                    |      |      |      |
| ▼500 ft. put-up available in Black or Natural only.                                                                    |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      |                                    |      |      |      |
| *1000 ft. put-up available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural. |              |         |        |       |      |          |          |      |      |          |      |      |    |     |      |      |                                    |      |      |      |

Suitable for Outdoor and Direct Burial applications.

\*500 ft. put-up available in Black or Natural only.

†1000 ft. put-up available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural.

### 20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield

| Polyethylene Insulation • Gray Non-contaminating PVC Jacket                        |      |         |      |       |      |          |         |      |         |                                      |      |      |    |     |      |      |      |      |      |      |     |      |
|------------------------------------------------------------------------------------|------|---------|------|-------|------|----------|---------|------|---------|--------------------------------------|------|------|----|-----|------|------|------|------|------|------|-----|------|
| 60°C                                                                               | 9231 | NEC:    | 500  | 152.4 | 38.0 | 17.3     | 20 AWG  | .198 | 5.03    | TC Double                            | .305 | 7.75 | 75 | 66% | 21.0 | 68.9 | 1    | .3   | 1.0  |      |     |      |
| VW-1                                                                               |      | CMH     | 1000 | 304.8 | 76.0 | 34.5     | (solid) |      |         | Braid                                |      |      |    |     |      |      | 3.6  | .5   | 1.6  |      |     |      |
|  |      | CEC:    |      |       |      |          | .031"   |      |         | 98% Shield                           |      |      |    |     |      |      |      | 10.0 | .8   | 2.6  |     |      |
|                                                                                    |      | CMH FT1 |      |       |      |          | BC      |      |         | Coverage                             |      |      |    |     |      |      |      | 71.5 | 2.0  | 6.6  |     |      |
|                                                                                    |      |         |      |       |      |          | 9.9Ω/M' |      |         | 1.1Ω/M'                              |      |      |    |     |      |      |      | 135  | 3.5  | 11.5 |     |      |
|                                                                                    |      |         |      |       |      | 32.5Ω/km |         |      | 3.6Ω/km | 100% Sweep tested. 5 MHz to 850 MHz. |      |      |    |     |      |      |      |      |      | 270  | 4.3 | 14.1 |
|                                                                                    |      |         |      |       |      |          |         |      |         |                                      |      |      |    |     |      |      | 360  | 5.0  | 16.4 |      |     |      |
|                                                                                    |      |         |      |       |      |          |         |      |         |                                      |      |      |    |     |      |      | 540  | 6.2  | 20.3 |      |     |      |
|                                                                                    |      |         |      |       |      |          |         |      |         |                                      |      |      |    |     |      |      | 720  | 7.2  | 23.6 |      |     |      |
|                                                                                    |      |         |      |       |      |          |         |      |         |                                      |      |      |    |     |      |      | 750  | 7.4  | 24.3 |      |     |      |
|                                                                                    |      |         |      |       |      |          |         |      |         |                                      |      |      |    |     |      |      | 1000 | 9.1  | 29.8 |      |     |      |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.



By:



INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010



BRILLIANCE®

# Precision Video Cable for Analog and Digital

## RG-6/U and RG-11/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### RG-6/U Type • 18 AWG Solid .040" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------|--------------|---------|------------------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                 | <b>1694A</b> | NEC:    | 500 <sup>▲</sup> | 152.4  | 23.0  | 10.5 | 18 AWG   | .180 | 4.57 | Duofoil  | .275 | 6.99 | 75 | 82% | 16.2 | 53.1 | 1    | .2   | .8   |
| Digital Video                                                            | <b>new</b>   | CMR     | 1000             | 304.8  | 45.0  | 20.5 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .5   | 1.5  |
| 75°C                                                                     |              | CEC:    | 4500             | 1371.6 | 200.5 | 91.1 | .040"    |      |      | TC Braid |      |      |    |     |      |      | 10   | .7   | 2.4  |
|                                                                          |              | CMG FT4 |                  |        |       |      | BC       |      |      | 2.8Ω/M'  |      |      |    |     |      |      | 71.5 | 1.6  | 5.2  |
|                                                                          |              |         |                  |        |       |      | 6.4Ω/M'  |      |      | 9.2Ω/km  |      |      |    |     |      |      | 135  | 2.1  | 6.9  |
|                                                                          |              |         |                  |        |       |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.0  | 9.7  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 360  | 3.4  | 11.3 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 540  | 4.3  | 13.9 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 720  | 4.9  | 16.1 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 750  | 5.0  | 16.4 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 1000 | 5.9  | 19.3 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 1500 | 7.3  | 24.0 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 2250 | 9.1  | 30.0 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 3000 | 10.7 | 35.0 |

\*500 ft. put-up available in Black only.

| Plenum • Foam FEP Insulation • Flammarrest® Jacket (Available in 10 colors)** |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------|--------------|---------|-------------------|-------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                      | <b>1695A</b> | NEC:    | 500 <sup>†</sup>  | 152.4 | 22.5 | 10.2 | 18 AWG   | .170 | 4.32 | Duofoil  | .234 | 5.94 | 75 | 82% | 16.2 | 53.1 | 1    | .2   | .8   |
| Digital Video                                                                 | <b>new</b>   | CMP     | 1000 <sup>†</sup> | 304.8 | 45.0 | 20.5 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .5   | 1.5  |
| 75°C                                                                          |              | CEC:    |                   |       |      |      | .040"    |      |      | TC Braid |      |      |    |     |      |      | 10   | .8   | 2.5  |
|                                                                               |              | CMP FT6 |                   |       |      |      | BC       |      |      | 2.8Ω/M'  |      |      |    |     |      |      | 71.5 | 1.8  | 5.8  |
|                                                                               |              |         |                   |       |      |      | 6.4Ω/M'  |      |      | 9.2Ω/km  |      |      |    |     |      |      | 135  | 2.4  | 7.9  |
|                                                                               |              |         |                   |       |      |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.4  | 11.2 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 360  | 4.0  | 13.1 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 540  | 5.2  | 17.1 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 720  | 6.1  | 20.0 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 750  | 7.3  | 23.9 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 1000 | 7.5  | 24.6 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 1500 | 9.2  | 30.2 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 2250 | 11.6 | 38.0 |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 3000 | 13.7 | 44.9 |

\*500 ft. put-up available in Black, Red, Yellow, Violet or Natural only.

### RG-11/U Type • 14 AWG Solid .064" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      |      |     |      |
|--------------------------------------------------------------------------|--------------|---------|------------------|--------|-------|-------|---------|------|------|----------|------|------|----|-----|------|------|------|-----|------|
| SDI/HDTV                                                                 | <b>7731A</b> | NEC:    | 500 <sup>▼</sup> | 152.4  | 48.0  | 21.8  | 14 AWG  | .280 | 7.11 | Duofoil  | .405 | 10.3 | 75 | 85% | 16.0 | 52.4 | 1    | .2  | .5   |
| Digital Video                                                            |              | CMR     | 1000             | 304.8  | 94.0  | 42.8  | (solid) |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .3  | 1.0  |
| 75°C                                                                     |              | CEC:    | 4000             | 1219.2 | 467.0 | 212.3 | .064"   |      |      | TC Braid |      |      |    |     |      |      | 10   | .5  | 1.5  |
|                                                                          |              | CMG FT4 |                  |        |       |       | BC      |      |      | 1.5Ω/M'  |      |      |    |     |      |      | 71.5 | 1.1 | 3.6  |
|                                                                          |              |         |                  |        |       |       | 2.5Ω/M' |      |      | 4.9Ω/km  |      |      |    |     |      |      | 135  | 1.5 | 4.8  |
|                                                                          |              |         |                  |        |       |       | 8.2Ω/km |      |      |          |      |      |    |     |      |      | 270  | 2.1 | 6.9  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 360  | 2.5 | 8.0  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 540  | 3.1 | 10.0 |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 720  | 3.6 | 11.7 |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 750  | 3.7 | 12.0 |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 1000 | 4.3 | 14.1 |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 1500 | 5.5 | 18.0 |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 2250 | 6.9 | 22.6 |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 3000 | 8.2 | 26.9 |

\*500 ft. put-up available in Red or Black only.

| Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Available in 10 colors)** |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      |      |      |      |
|----------------------------------------------------------------------------------|--------------|---------|-------------------|-------|-------|------|---------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                         | <b>7732A</b> | NEC:    | 500 <sup>*</sup>  | 152.4 | 45.0  | 20.5 | 14 AWG  | .274 | 6.96 | Duofoil  | .348 | 8.84 | 75 | 83% | 16.3 | 53.5 | 1    | .2   | .5   |
| Digital Video                                                                    | <b>new</b>   | CMP     | 1000              | 304.8 | 88.0  | 40.0 | (solid) |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .3   | .9   |
| 150°C                                                                            |              | CEC:    | 2000 <sup>+</sup> | 609.6 | 176.0 | 80.0 | .064"   |      |      | TC Braid |      |      |    |     |      |      | 10   | .4   | 1.3  |
|                                                                                  |              | CMP FT6 |                   |       |       |      | BC      |      |      | 2.5Ω/M'  |      |      |    |     |      |      | 71.5 | 1.2  | 4.1  |
|                                                                                  |              |         |                   |       |       |      | 2.5Ω/M' |      |      | 8.2Ω/km  |      |      |    |     |      |      | 135  | 1.8  | 5.8  |
|                                                                                  |              |         |                   |       |       |      | 8.2Ω/km |      |      |          |      |      |    |     |      |      | 270  | 2.6  | 8.5  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 360  | 3.1  | 10.2 |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 540  | 3.9  | 12.8 |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 720  | 4.6  | 15.0 |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 750  | 4.7  | 15.4 |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 1000 | 5.5  | 18.0 |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 1500 | 6.9  | 22.7 |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 2250 | 9.2  | 30.2 |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 3000 | 10.2 | 33.5 |

\*500 ft. put-up available in Black or Natural only.

\*2000 ft. put-up available in Natural only.

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG-U cables not listed.

\* Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

\*\* Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural.

† Spools are one piece, but length may vary ±10% from length shown.



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For more information or technical support, call 1-800-BELDEN-1 or 1-800-BELDEN-3 or visit [www.belden.com](http://www.belden.com)

1-800-527-0010

# Brilliance VideoFLEX® Snake Cable for Precision Analog and Digital Video

Miniature and RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

## Miniature • 23 AWG Solid .023" Bare Copper • Duofoil® + 95% Tinned Copper Braid (100% Shield Coverage)

| Solid Copper, Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below) |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------------------|------------------------------------|---------|----|------|-------|-------|----------|---------|----------|------|----------|----------|-------|----|-----|------|------|------|------|------|
| SDI/HDTV<br>Digital Video<br>75°C<br>(1855A Bundled)                                                           | <b>7787A</b><br><small>new</small> | NEC:    | 3  | 500  | 152.4 | 47.5  | 21.6     | 23 AWG  | .102     | 2.55 | Duofoil  | .432     | 10.97 | 75 | 83% | 16.5 | 54.1 | 1    | .4   | 1.3  |
|                                                                                                                |                                    | CEC:    |    | 1000 | 304.8 | 94.0  | 42.7     | (solid) |          |      | + 95%    |          |       |    |     |      |      | 3.6  | .8   | 2.6  |
|                                                                                                                |                                    | CMG FT4 |    |      |       |       |          | .023"   |          |      | TC Braid |          |       |    |     |      |      | 10   | 1.2  | 3.9  |
|                                                                                                                |                                    |         |    |      |       |       |          |         | BC       |      |          | 7.6Ω/M'  |       |    |     |      |      | 71.5 | 3.1  | 10.0 |
|                                                                                                                |                                    |         |    |      |       |       |          |         | 20.1Ω/M' |      |          | 24.9Ω/km |       |    |     |      |      | 135  | 3.8  | 12.5 |
|                                                                                                                |                                    |         |    |      |       |       | 65.9Ω/km |         |          |      |          |          |       |    |     |      | 270  | 5.4  | 17.7 |      |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      | 360  | 6.2  | 20.3 |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      | 540  | 7.7  | 25.3 |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      | 720  | 9.1  | 29.8 |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      | 750  | 9.5  | 31.2 |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      | 1000 | 10.5 | 34.4 |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      | 1500 | 13.0 | 42.6 |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      |      |      |      |
|                                                                                                                | <b>7788A</b><br><small>new</small> | NEC:    | 4  | 1000 | 304.8 | 111.0 | 50.5     | same    | .102     | 2.55 | same     | .481     | 12.22 |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CEC:    |    |      |       |       |          | as      |          |      | as       |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CMG FT4 |    |      |       |       |          | above   | .159     | 4.03 | above    |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      |      |      |      |
|                                                                                                                | <b>7789A</b><br><small>new</small> | NEC:    | 5  | 500  | 152.4 | 72.5  | 33.0     | same    | .102     | 2.55 | same     | .539     | 13.69 |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CEC:    |    | 1000 | 304.8 | 141.0 | 64.1     | as      |          |      | as       |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CMG FT4 |    |      |       |       |          | above   | .159     | 4.03 | above    |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      |      |      |      |
|                                                                                                                | <b>7790A</b><br><small>new</small> | NEC:    | 6  | 500  | 152.4 | 88.5  | 40.2     | same    | .102     | 2.55 | same     | .597     | 15.16 |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CEC:    |    | 1000 | 304.8 | 175.0 | 79.5     | as      |          |      | as       |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CMG FT4 |    |      |       |       |          | above   | .159     | 4.03 | above    |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      |      |      |      |
|                                                                                                                | <b>7791A</b><br><small>new</small> | NEC:    | 10 | 500  | 152.4 | 155.5 | 70.7     | same    | .102     | 2.55 | same     | .796     | 20.22 |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CEC:    |    | 1000 | 304.8 | 303.0 | 137.7    | as      |          |      | as       |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CMG FT4 |    |      |       |       |          | above   | .159     | 4.03 | above    |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      |      |      |      |
|                                                                                                                | <b>7792A</b><br><small>new</small> | NEC:    | 12 | 500  | 152.4 | 171.5 | 78.0     | same    | .102     | 2.55 | same     | .825     | 20.96 |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CEC:    |    | 1000 | 304.8 | 353.0 | 160.5    | as      |          |      | as       |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    | CMG FT4 |    |      |       |       |          | above   | .159     | 4.03 | above    |          |       |    |     |      |      |      |      |      |
|                                                                                                                |                                    |         |    |      |       |       |          |         |          |      |          |          |       |    |     |      |      |      |      |      |

Sweep tested 5 MHz to 3 GHz.

Sweep tested 5 MHz to 3 GHz.

## RG-59/U Type • 20 AWG Solid .032" Bare Copper • Duofoil + 95% Tinned Copper Braid (100% Shield Coverage)

| Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below) |                                    |         |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------|------------------------------------|---------|----|------|-------|-------|-------|---------------------|------|------|---------------------|-------|-------|----|-----|------|------|------|------|------|------|
| SDI/HDTV<br>Digital Video<br>75°C<br>(1505A Bundled)                                             | <b>7794A</b><br><small>new</small> | NEC:    | 3  | 500  | 152.4 | 94.5  | 43.0  | 20 AWG<br>(solid)   | .145 | 3.68 | Duofoil<br>+ 95%    | .631  | 16.03 | 75 | 83% | 16.3 | 53.1 | 1    | .3   | 1.0  |      |
|                                                                                                  |                                    | CEC:    |    | 1000 | 304.8 | 188.0 | 85.5  | .032"               | .235 | 5.97 | TC Braid            |       |       |    |     |      |      | 3.6  | .6   | 1.8  |      |
|                                                                                                  |                                    | CMG FT4 |    |      |       |       |       | BC                  |      |      | 3.8Ω/M'             |       |       |    |     |      |      | 10   | .9   | 2.9  |      |
|                                                                                                  |                                    |         |    |      |       |       |       | 10.0Ω/M'            |      |      | 12.5Ω/km            |       |       |    |     |      |      |      | 71.5 | 2.1  | 6.9  |
|                                                                                                  |                                    |         |    |      |       |       |       | 32.8Ω/km            |      |      |                     |       |       |    |     |      |      |      | 135  | 2.7  | 8.9  |
|                                                                                                  | <b>7795A</b><br><small>new</small> | NEC:    | 4  | 500  | 152.4 | 116.5 | 53.0  | same<br>as<br>above | .145 | 3.68 | same<br>as<br>above | .706  | 17.93 |    |     |      |      | 270  | 3.8  | 12.5 |      |
|                                                                                                  |                                    | CEC:    |    | 1000 | 304.8 | 237.0 | 107.7 |                     | .235 | 5.97 |                     |       |       |    |     |      |      | 360  | 4.4  | 14.4 |      |
|                                                                                                  |                                    | CMG FT4 |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      | 540  | 5.5  | 18.0 |
|                                                                                                  |                                    |         |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      | 720  | 6.4  | 21.0 |
|                                                                                                  |                                    |         |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      | 750  | 6.5  | 21.3 |
|                                                                                                  | <b>7796A</b><br><small>new</small> | NEC:    | 5  | 500  | 152.4 | 150.0 | 68.2  | same<br>as<br>above | .145 | 3.68 | same<br>as<br>above | .790  | 20.07 |    |     |      |      | 1000 | 7.6  | 24.9 |      |
|                                                                                                  |                                    | CEC:    |    | 1000 | 304.8 | 293.0 | 133.2 |                     | .235 | 5.97 |                     |       |       |    |     |      |      | 1500 | 9.3  | 30.5 |      |
|                                                                                                  |                                    | CMG FT4 |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      |      |      |      |
|                                                                                                  |                                    |         |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      |      |      |      |
|                                                                                                  |                                    |         |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      |      |      |      |
|                                                                                                  | <b>7798A</b><br><small>new</small> | NEC:    | 10 | 500  | 152.4 | 319.5 | 145.2 | same<br>as<br>above | .145 | 3.68 | same<br>as<br>above | 1.166 | 29.62 |    |     |      |      |      |      |      |      |
|                                                                                                  |                                    | CEC:    |    | 1000 | 304.8 | 625.0 | 284.1 |                     | .235 | 5.97 |                     |       |       |    |     |      |      |      |      |      |      |
|                                                                                                  |                                    | CMG FT4 |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      |      |      |      |
|                                                                                                  |                                    |         |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      |      |      |      |
|                                                                                                  |                                    |         |    |      |       |       |       |                     |      |      |                     |       |       |    |     |      |      |      |      |      |      |

Sweep tested 5 MHz to 3 GHz.

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

See Connector Reference Guide at [www.belden.com](http://www.belden.com) for connector recommendations.

### Color Code Chart

| Cond. | Color | Cond. | Color  | Cond. | Color  |
|-------|-------|-------|--------|-------|--------|
| 1     | Red   | 5     | Yellow | 9     | Violet |
| 2     | Green | 6     | Brown  | 10    | Black  |
| 3     | Blue  | 7     | Orange | 11    | Pink   |
| 4     | White | 8     | Gray   | 12    | Tan    |

# Brilliance VideoFLEX® Snake Cable for Precision Analog and Digital Video RG-6/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**RG-6/U Type • 18 AWG** Solid .040" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

**Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket** (Color Code: See chart below)

|                                                      |       |                                |    |             |                |                |                |                                                         |                          |              |                                                    |                |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |
|------------------------------------------------------|-------|--------------------------------|----|-------------|----------------|----------------|----------------|---------------------------------------------------------|--------------------------|--------------|----------------------------------------------------|----------------|----|-----|------|------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| SDI/HDTV<br>Digital Video<br>60°C<br>(1694A Bundled) | 7710A | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 3  | 500<br>1000 | 152.4<br>304.8 | 131.5<br>273.0 | 59.8<br>124.1  | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | Duofoil<br>+ 95%<br>TC Braid<br>2.8Ω/M'<br>9.2Ω/km | .770<br>19.56  | 75 | 82% | 16.2 | 53.1 | 1<br>3.6<br>10<br>71.5<br>135<br>270<br>360<br>540<br>720<br>750<br>1000<br>1500<br>2500<br>3000 | .2<br>.5<br>.7<br>1.6<br>2.1<br>3.0<br>3.4<br>4.3<br>4.9<br>5.0<br>5.9<br>7.3<br>9.7<br>10.0 | .8<br>1.5<br>2.4<br>5.2<br>6.9<br>9.7<br>11.3<br>13.9<br>16.1<br>16.4<br>19.3<br>24.0<br>31.8<br>32.8 |
|                                                      | 7711A | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 4  | 500<br>1000 | 152.4<br>304.8 | 174.0<br>339.0 | 79.1<br>154.1  | same<br>as<br>above                                     | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | same<br>as<br>above                                | .900<br>22.86  |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |
|                                                      | 7712A | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 5  | 500<br>1000 | 152.4<br>304.8 | 209.5<br>440.0 | 95.2<br>200.0  | same<br>as<br>above                                     | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | same<br>as<br>above                                | .942<br>23.93  |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |
|                                                      | 7713A | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 10 | 500<br>1000 | 152.4<br>304.8 | 450.0<br>878.0 | 204.5<br>399.1 | same<br>as<br>above                                     | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | same<br>as<br>above                                | 1.386<br>35.20 |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |



Sweep tested 5 MHz to 3 GHz.

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed. See Connector Reference Guide at [www.belden.com](http://www.belden.com) for connector recommendations.

## Color Code Chart

| Cond. | Color  | Cond. | Color  |
|-------|--------|-------|--------|
| 1     | Red    | 6     | Brown  |
| 2     | Green  | 7     | Orange |
| 3     | Blue   | 8     | Gray   |
| 4     | White  | 9     | Violet |
| 5     | Yellow | 10    | Black  |



By:



**INTERSTATE WIRE CO.**  
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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

## Bundled RGB Cable

### Miniature and High-Flex Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**Miniature • 30 AWG** Stranded (7x38) .012" Tinned Copper • Duofoil® + 90% TC Braid (Coaxes) • 100% Overall Beldfoil® Shield

**Foam HDPE Insulation • Overall Black PVC Jacket** (Color Code: Red, Green, Blue, White, Yellow)

|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      |      |      |       |
|------------------------------------|--------------|-------------|---|------|-------|------|------|-----------------------------------------------------------|------|------|----------------------------------------------------------------------------------------|------|------|----|-----|------|------|------|------|-------|
| UL AWM<br>Style 1354<br>(30V 60°C) | <b>1520A</b> | NEC:<br>CL2 | 3 | 500  | 152.4 | 25.0 | 11.4 | 30 AWG<br>(7x38)<br>.012"<br>TC<br>100.0Ω/M'<br>328.0Ω/km | .056 | 1.42 | Coaxes:<br>Duofoil<br>+ 90%<br>TC Braid<br>Overall:<br>Beldfoil<br>9.5Ω/M'<br>31.2Ω/km | .283 | 7.19 | 75 | 78% | 17.3 | 56.7 | 1    | .8   | 2.6   |
|                                    |              |             |   | 1000 | 304.8 | 50.0 | 22.7 |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 5    | 1.5  | 4.9   |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 10   | 2.2  | 7.2   |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 30   | 4.0  | 13.1  |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 50   | 5.4  | 17.7  |
|                                    | <b>1521A</b> | NEC:<br>CL2 | 4 | 500  | 152.4 | 30.0 | 13.6 | same<br>as<br>above                                       | .056 | 1.42 | same<br>as<br>above                                                                    | .310 | 7.87 |    |     |      |      | 100  | 8.2  | 26.9  |
|                                    |              |             |   | 1000 | 304.8 | 60.0 | 27.3 |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 200  | 12.5 | 41.0  |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 400  | 18.9 | 62.0  |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 700  | 26.5 | 86.9  |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      | 900  | 30.8 | 101.0 |
| <b>1522A</b>                       |              | NEC:<br>CL2 | 5 | 500  | 152.4 | 34.0 | 15.5 | same<br>as<br>above                                       | .056 | 1.42 | same<br>as<br>above                                                                    | .338 | 8.59 |    |     |      |      | 1000 | 32.8 | 107.6 |
|                                    |              |             |   | 1000 | 304.8 | 68.0 | 30.9 |                                                           |      |      |                                                                                        |      |      |    |     |      |      |      |      |       |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      |      |      |       |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      |      |      |       |
|                                    |              |             |   |      |       |      |      |                                                           |      |      |                                                                                        |      |      |    |     |      |      |      |      |       |

100% Sweep tested. 10 MHz to 40 MHz.

**High-Flex • 26 AWG** Stranded (7x34) .019" Bare Copper • Duofoil + 93% Tinned Copper Braid Shield

**Foam HDPE Insulation • Overall Matte Black PVC Jacket** (Color Code: Red, Green, Blue, White, Yellow)

|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      |      |      |      |
|--------------|--------------|--|---|-------------------|-------|-------|------|----------------------------------------------------------|------|------|-----------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| 60°C         | <b>1406B</b> |  | 3 | 1000 <sup>†</sup> | 304.8 | 75.0  | 34.1 | 26 AWG<br>(7x34)<br>.019"<br>BC<br>41.5Ω/M'<br>136.0Ω/km | .090 | 2.29 | Duofoil<br>+ 93%<br>TC Braid<br>8.6Ω/M'<br>28.2Ω/km | .388 | 9.86  | 75 | 78% | 17.3 | 56.7 | 1    | .6   | 2.0  |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 5    | 1.3  | 4.3  |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 10   | 1.8  | 5.9  |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 30   | 3.1  | 10.2 |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 50   | 3.9  | 12.8 |
|              | <b>1407B</b> |  | 4 | 1000 <sup>†</sup> | 304.8 | 100.0 | 45.5 | same<br>as<br>above                                      | .090 | 2.29 | same<br>as<br>above                                 | .455 | 11.56 |    |     |      |      | 100  | 5.4  | 17.7 |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 200  | 7.5  | 24.6 |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 400  | 10.4 | 34.1 |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 700  | 13.5 | 44.3 |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      | 900  | 15.2 | 49.9 |
| <b>1417B</b> |              |  | 5 | 1000 <sup>†</sup> | 304.8 | 120.0 | 54.5 | same<br>as<br>above                                      | .090 | 2.29 | same<br>as<br>above                                 | .477 | 12.12 |    |     |      |      | 1000 | 15.9 | 52.2 |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      |      |      |      |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      |      |      |      |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      |      |      |      |
|              |              |  |   |                   |       |       |      |                                                          |      |      |                                                     |      |       |    |     |      |      |      |      |      |

100% Sweep tested. 10 MHz to 40 MHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

<sup>†</sup>Spools are one piece, but length may vary ±10% from length shown.

### Color Code Chart

| Cond. | Color  |
|-------|--------|
| 1     | Red    |
| 2     | Green  |
| 3     | Blue   |
| 4     | White  |
| 5     | Yellow |

## Bundled RGB Cable

CM and CMP Rated



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**26 AWG** Stranded (7x34) .019" Bare Copper • Duofoil® + 93% Tinned Copper Braid Shield • Overall Polyester Tape

| Foam HDPE Insulation • Overall Black PVC Jacket • Inner PVC Jacket (Color Code: Red, Green, Blue, White, Yellow) |              |            |   |               |                |               |              |                     |                          |              |                     |      |       |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------------------------------------------|--------------|------------|---|---------------|----------------|---------------|--------------|---------------------|--------------------------|--------------|---------------------|------|-------|----|-----|------|------|------|------|------|
| UL AWM<br>Styles 1354<br>and 2668<br>(30V 60°C)                                                                  | <b>1164B</b> | NEC:<br>CM | 3 | 500†          | 152.4          | 39.5          | 18.0         | 26 AWG<br>(7x34)    | .090                     | 2.29         | Duofoil             | .388 | 9.86  | 75 | 78% | 17.3 | 56.7 | 1    | .6   | 2.0  |
|                                                                                                                  |              |            |   | 1000†         | 304.8          | 78.0          | 35.5         | .019"               | .146                     | 3.71         | + 93%<br>TC Braid   |      |       |    |     |      |      | 5    | 1.3  | 4.3  |
|                                                                                                                  |              |            |   |               |                |               |              | BC                  |                          |              | 8.6Ω/M'             |      |       |    |     |      |      | 10   | 1.8  | 5.9  |
|                                                                                                                  |              |            |   |               |                |               |              | 41.5Ω/M'            |                          |              | 28.2Ω/km            |      |       |    |     |      |      | 30   | 3.1  | 10.2 |
|                                                                                                                  |              |            |   |               |                |               |              | 136.1Ω/km           |                          |              |                     |      |       |    |     |      |      | 50   | 3.9  | 12.8 |
|                                                                                                                  |              |            |   |               |                |               |              |                     |                          |              |                     |      |       |    |     |      |      | 100  | 5.4  | 17.7 |
|                                                                                                                  |              |            |   |               |                |               |              |                     |                          |              |                     |      |       |    |     |      |      | 200  | 7.5  | 24.6 |
|                                                                                                                  |              |            |   |               |                |               |              |                     |                          |              |                     |      |       |    |     |      |      | 400  | 10.4 | 34.1 |
|                                                                                                                  |              |            |   |               |                |               |              |                     |                          |              |                     |      |       |    |     |      |      | 700  | 13.5 | 44.3 |
|                                                                                                                  |              |            |   |               |                |               |              |                     |                          |              |                     |      |       |    |     |      |      | 900  | 15.2 | 49.9 |
|                                                                                                                  |              |            |   |               |                |               |              |                     |                          |              |                     |      |       |    |     |      |      | 1000 | 15.9 | 52.2 |
|                                                                                                                  | <b>1167B</b> | NEC:<br>CM | 4 | 1000†         | 304.8          | 105.0         | 47.7         | same<br>as<br>above | .090<br>Coax OD:<br>.146 | 2.29<br>3.71 | same<br>as<br>above | .455 | 11.56 |    |     |      |      |      |      |      |
|                                                                                                                  | <b>1418B</b> | NEC:<br>CM | 5 | 500†<br>1000† | 152.4<br>304.8 | 61.0<br>118.0 | 27.7<br>53.6 | same<br>as<br>above | .090<br>Coax OD:<br>.146 | 2.29<br>3.71 | same<br>as<br>above | .477 | 12.12 |    |     |      |      |      |      |      |

100% Sweep tested. 10 MHz to 40 MHz.

**RG-59/U Type • 22 AWG** Stranded (7x30) .030" Bare Copper • Duofoil + 95% TC Braid (Coaxes) • 100% Overall Beldfoil® Shield

| Plenum • Foam FEP Insulation • Overall Natural Flamarrest® Jacket • Inner Fluorocopolymer Jacket (See chart below) |              |             |   |             |                |                |              |                     |                          |              |                         |      |       |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------|--------------|-------------|---|-------------|----------------|----------------|--------------|---------------------|--------------------------|--------------|-------------------------|------|-------|----|-----|------|------|------|------|------|
| 60°C                                                                                                               | <b>1824A</b> | NEC:<br>CMP | 3 | 500         | 152.4          | 63.5           | 28.9         | 22 AWG<br>(7x30)    | .135                     | 3.43         | Coaxes:<br>Duofoil      | .475 | 12.07 | 75 | 81% | 17.3 | 56.7 | 1    | .3   | .8   |
|                                                                                                                    |              |             |   | 1000        | 304.8          | 127.0          | 57.7         | .030"               | .200                     | 5.08         | + 95%<br>TC Braid       |      |       |    |     |      |      | 5    | .6   | 1.9  |
|                                                                                                                    |              |             |   |             |                |                |              | BC                  |                          |              | 2.5Ω/km                 |      |       |    |     |      |      | 10   | .8   | 2.7  |
|                                                                                                                    |              |             |   |             |                |                |              | 15.3Ω/M'            |                          |              | 8.3Ω/km                 |      |       |    |     |      |      | 30   | 1.5  | 4.9  |
|                                                                                                                    |              |             |   |             |                |                |              | 50.2Ω/km            |                          |              | Overall:<br>Beldfoil    |      |       |    |     |      |      | 50   | 2.0  | 6.4  |
|                                                                                                                    |              |             |   |             |                |                |              |                     |                          |              | 100% Shield<br>Coverage |      |       |    |     |      |      | 100  | 2.9  | 9.5  |
|                                                                                                                    |              |             |   |             |                |                |              |                     |                          |              | 11.1Ω/M'                |      |       |    |     |      |      | 200  | 4.3  | 14.2 |
|                                                                                                                    |              |             |   |             |                |                |              |                     |                          |              | 36.4Ω/km                |      |       |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                                                                                    |              |             |   |             |                |                |              |                     |                          |              |                         |      |       |    |     |      |      | 700  | 9.4  | 30.9 |
|                                                                                                                    |              |             |   |             |                |                |              |                     |                          |              |                         |      |       |    |     |      |      | 900  | 11.1 | 36.4 |
|                                                                                                                    |              |             |   |             |                |                |              |                     |                          |              |                         |      |       |    |     |      |      | 1000 | 11.9 | 39.0 |
|                                                                                                                    | <b>1825A</b> | NEC:<br>CMP | 4 | 500<br>1000 | 152.4<br>304.8 | 84.5<br>167.0  | 38.4<br>75.9 | same<br>as<br>above | .135<br>Coax OD:<br>.200 | 3.43<br>5.08 | same<br>as<br>above     | .527 | 13.39 |    |     |      |      |      |      |      |
|                                                                                                                    | <b>1826A</b> | NEC:<br>CMP | 5 | 500<br>1000 | 152.4<br>304.8 | 101.5<br>201.0 | 46.1<br>91.4 | same<br>as<br>above | .135<br>Coax OD:<br>.200 | 3.43<br>5.08 | same<br>as<br>above     | .585 | 14.86 |    |     |      |      |      |      |      |

100% Sweep tested. 10 MHz to 40 MHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.

### Color Code Chart

| Cond. | Color | Cond. | Color  |
|-------|-------|-------|--------|
| 1     | Red   | 4     | White  |
| 2     | Green | 5     | Yellow |
| 3     | Blue  |       |        |



By:



INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010



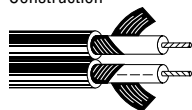
# High-Flex SVHS Cable



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

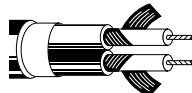
## 30 AWG Stranded (7x38) .012" Tinned Copper • Tinned Copper Serve (90% Shield Coverage)

| Foam HDPE Insulation • Matte Black PVC Jacket (One Coax Printed and Striped for Identification) |       |   |        |         |      |     |           |      |      |            |      |      |    |     |      |      |     |      |      |      |
|-------------------------------------------------------------------------------------------------|-------|---|--------|---------|------|-----|-----------|------|------|------------|------|------|----|-----|------|------|-----|------|------|------|
| Parallel Zip Construction                                                                       | 1807A | 2 | U-500  | U-152.4 | 8.0  | 3.6 | 30 AWG    | .058 | 1.47 | TC Serve   | .110 | 2.79 | 75 | 78% | 17.3 | 56.7 | 1   | .6   | 2.0  |      |
|                                                                                                 |       |   | 500    | 152.4   | 8.5  | 3.9 | (7x38)    |      |      | 90% Shield | x    | x    |    |     |      |      | 5   | 1.4  | 4.6  |      |
|                                                                                                 |       |   | U-1000 | U-304.8 | 15.0 | 6.8 | .012"     |      |      | Coverage   | .230 | 5.84 |    |     |      |      | 10  | 2.1  | 6.9  |      |
|                                                                                                 |       |   | 1000   | 304.8   | 19.0 | 8.6 | TC        |      |      | 7.5Ω/M'    |      |      |    |     |      |      | 30  | 3.8  | 12.5 |      |
|                                                                                                 |       |   |        |         |      |     | 100.0Ω/M' |      |      | 24.6Ω/km   |      |      |    |     |      |      | 50  | 5.1  | 16.7 |      |
|                                                                                                 |       |   |        |         |      |     | 328.0Ω/km |      |      |            |      |      |    |     |      |      | 100 | 7.6  | 24.9 |      |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |     |      |      |     | 200  | 11.3 | 37.1 |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |     |      |      |     | 400  | 16.9 | 55.4 |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |     |      |      |     | 700  | 23.3 | 76.4 |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |     |      |      |     | 900  | 26.9 | 88.2 |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |     |      |      |     | 1000 | 28.6 | 93.8 |



For Plenum version of 1807A,  
see 7700A.

| Foam HDPE Insulation • Matte Black PVC Jacket (Inner PVC Jackets Color Code: Black and Yellow) |              |   |        |         |      |      |           |      |      |            |      |     |    |     |      |      |     |      |      |      |
|------------------------------------------------------------------------------------------------|--------------|---|--------|---------|------|------|-----------|------|------|------------|------|-----|----|-----|------|------|-----|------|------|------|
| Round<br>Construction                                                                          | <b>1808A</b> | 2 | U-500  | U-152.4 | 15.0 | 6.8  | 30 AWG    | .058 | 1.47 | TC Serve   | .255 | .84 | 75 | 78% | 17.3 | 56.7 | 1   | .6   | 2.0  |      |
|                                                                                                |              |   | 500    | 152.4   | 15.5 | 7.0  | (7x38)    |      |      | 90% Shield |      |     |    |     |      | 5    | 1.4 | 4.6  |      |      |
|                                                                                                |              |   | U-1000 | U-304.8 | 30.0 | 13.7 | .012"     |      |      | Coverage   |      |     |    |     |      | 10   | 2.1 | 6.9  |      |      |
|                                                                                                |              |   | 1000   | 304.8   | 31.0 | 14.1 | TC        |      |      | 7.5Ω/M'    |      |     |    |     |      | 30   | 3.8 | 12.5 |      |      |
|                                                                                                |              |   |        |         |      |      | 100.0Ω/M' |      |      | 24.6Ω/km   |      |     |    |     |      | 50   | 5.1 | 16.7 |      |      |
|                                                                                                |              |   |        |         |      |      | 328.0Ω/km |      |      |            |      |     |    |     |      | 100  | 7.6 | 24.9 |      |      |
|                                                                                                |              |   |        |         |      |      |           |      |      |            |      |     |    |     |      |      |     | 200  | 11.3 | 37.1 |
|                                                                                                |              |   |        |         |      |      |           |      |      |            |      |     |    |     |      |      |     | 400  | 16.9 | 55.4 |
|                                                                                                |              |   |        |         |      |      |           |      |      |            |      |     |    |     |      |      |     | 700  | 23.3 | 76.4 |
|                                                                                                |              |   |        |         |      |      |           |      |      |            |      |     |    |     |      |      |     | 900  | 26.9 | 88.2 |
|                                                                                                |              |   |        |         |      |      |           |      |      |            |      |     |    |     |      |      |     | 1000 | 28.6 | 93.8 |



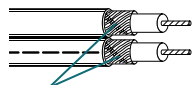
Available in Plenum versions  
by special order only.

## 30 AWG Stranded (7x38) .012" Tinned Copper • Tinned Copper "French Braid" (98% Shield Coverage)

| Plenum • Foam FEP Insulation • Black Flamarrest® Jacket (One Coax Printed and Striped for Identification) |              |             |   |      |       |      |     |           |      |      |                |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------------------------------|--------------|-------------|---|------|-------|------|-----|-----------|------|------|----------------|------|------|----|-----|------|------|------|------|------|
| Parallel Zip Construction                                                                                 | <b>7700A</b> | NEC:<br>CMP | 2 | 500  | 152.4 | 10.5 | 4.8 | 30 AWG    | .053 | 1.35 | TC             | .107 | 2.72 | 75 | 78% | 17.3 | 56.7 | 1    | .7   | 2.3  |
|                                                                                                           |              |             |   | 1000 | 304.8 | 19.0 | 8.6 | (7x38)    |      |      | "French Braid" | x    | x    |    |     |      |      | 5    | 1.7  | 5.6  |
|                                                                                                           |              |             |   |      |       |      |     | .012"     |      |      | 98% Shield     | .214 | 5.44 |    |     |      |      | 10   | 2.3  | 7.5  |
|                                                                                                           |              |             |   |      |       |      |     | TC        |      |      | Coverage       |      |      |    |     |      |      | 30   | 4.1  | 13.4 |
|                                                                                                           |              |             |   |      |       |      |     | 100.0Ω/M' |      |      | 7.4Ω/M'        |      |      |    |     |      |      | 50   | 5.3  | 17.4 |
|                                                                                                           |              |             |   |      |       |      |     | 328.0Ω/km |      |      | 24.3Ω/km       |      |      |    |     |      |      | 100  | 7.6  | 24.9 |
|                                                                                                           |              |             |   |      |       |      |     |           |      |      |                |      |      |    |     |      |      | 200  | 11.8 | 38.7 |
|                                                                                                           |              |             |   |      |       |      |     |           |      |      |                |      |      |    |     |      |      | 400  | 17.6 | 57.7 |
|                                                                                                           |              |             |   |      |       |      |     |           |      |      |                |      |      |    |     |      |      | 700  | 24.2 | 79.4 |
|                                                                                                           |              |             |   |      |       |      |     |           |      |      |                |      |      |    |     |      |      | 900  | 28.0 | 91.8 |
|                                                                                                           |              |             |   |      |       |      |     |           |      |      |                |      |      |    |     |      |      | 1000 | 29.8 | 97.7 |



French Braid



French Braid

DCR = DC Resistance • TC = Tinned Copper • HDPE = High-density Polyethylene

Contact the Belden Wire & Cable Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.



## Video Triax Cable

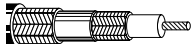
RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**22 AWG Stranded (19x34) .031" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)**

| Foam Polyethylene Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Violet or Black. Polyethylene Insulation between Braids) |       |  |      |       |      |      |                   |      |      |               |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------------------------------------------------------------|-------|--|------|-------|------|------|-------------------|------|------|---------------|------|------|----|-----|------|------|------|------|------|
| High-Flex<br>80°C                                                                                                                  | 1857A |  | 500  | 152.4 | 42.5 | 19.3 | 22 AWG<br>(19x34) | .143 | 3.63 | (2) BC Braids | .360 | 9.14 | 75 | 79% | 17.0 | 55.8 | 1    | .3   | 1.0  |
|                                                                                                                                    |       |  | 1000 | 304.8 | 86.0 | 39.1 | .031"             |      |      | 95%           |      |      |    |     |      |      | 3.6  | .5   | 1.6  |
|                                                                                                                                    |       |  |      |       |      |      | BC                |      |      | Coverage      |      |      |    |     |      |      | 10   | .8   | 2.6  |
|                                                                                                                                    |       |  |      |       |      |      | 14.0Ω/M'          |      |      | Inner:        |      |      |    |     |      |      | 71.5 | 2.2  | 7.2  |
|                                                                                                                                    |       |  |      |       |      |      | 45.9Ω/km          |      |      | 2.5Ω/M'       |      |      |    |     |      |      | 135  | 3.1  | 10.2 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      | 8.2Ω/km       |      |      |    |     |      |      | 270  | 4.5  | 14.8 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      | Outer:        |      |      |    |     |      |      | 360  | 5.4  | 17.7 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      | 1.6Ω/M'       |      |      |    |     |      |      | 540  | 6.8  | 22.3 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      | 5.3Ω/km       |      |      |    |     |      |      | 720  | 8.1  | 26.6 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 750  | 8.4  | 27.6 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 1000 | 10.1 | 33.1 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 1500 | 13.3 | 43.6 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 2250 | 17.6 | 57.7 |
|                                                                                                                                    |       |  |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 3000 | 21.4 | 70.2 |

**20 AWG Solid .032" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)**

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids) |      |  |      |       |       |      |                   |      |      |               |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------|------|--|------|-------|-------|------|-------------------|------|------|---------------|------|------|----|-----|------|------|------|------|------|
| 80°C                                                                                                   | 8232 |  | 500  | 152.4 | 30.0  | 13.6 | 20 AWG<br>(solid) | .145 | 3.68 | (2) BC Braids | .315 | 8.00 | 75 | 83% | 16.2 | 53.1 | 1    | .3   | 1.0  |
|                                                                                                        |      |  | 1000 | 304.8 | 60.0  | 27.3 | .032"             |      |      | 95%           |      |      |    |     |      |      | 3.6  | .6   | 2.0  |
|                                                                                                        |      |  | 2000 | 609.6 | 118.0 | 53.6 | BC                |      |      | Coverage      |      |      |    |     |      |      | 10   | .9   | 3.0  |
|                                                                                                        |      |  |      |       |       |      | 10.0Ω/M'          |      |      | Inner:        |      |      |    |     |      |      | 71.5 | 2.1  | 6.9  |
|                                                                                                        |      |  |      |       |       |      | 32.8Ω/km          |      |      | 2.5Ω/M'       |      |      |    |     |      |      | 135  | 3.0  | 9.8  |
|                                                                                                        |      |  |      |       |       |      |                   |      |      | 8.2Ω/km       |      |      |    |     |      |      | 270  | 4.2  | 13.8 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      | Outer:        |      |      |    |     |      |      | 360  | 4.8  | 15.7 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      | 2.8Ω/M'       |      |      |    |     |      |      | 540  | 5.9  | 19.4 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      | 9.2Ω/km       |      |      |    |     |      |      | 720  | 7.0  | 23.0 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      |               |      |      |    |     |      |      | 750  | 7.1  | 23.3 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      |               |      |      |    |     |      |      | 1000 | 8.3  | 27.2 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      |               |      |      |    |     |      |      | 1500 | 10.5 | 34.4 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      |               |      |      |    |     |      |      | 2250 | 13.4 | 44.0 |
|                                                                                                        |      |  |      |       |       |      |                   |      |      |               |      |      |    |     |      |      | 3000 | 15.9 | 52.2 |

Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket (PVC Insulation between Braids) |       |                                |      |       |      |      |                   |      |      |               |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------|-------|--------------------------------|------|-------|------|------|-------------------|------|------|---------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                                                 | 8232A | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1000 | 304.8 | 69.0 | 31.4 | 20 AWG<br>(solid) | .145 | 3.68 | (2) BC Braids | .315 | 8.00 | 75 | 83% | 16.2 | 53.1 | 1    | .3   | 1.0  |
|                                                                                      |       |                                |      |       |      |      | .032"             |      |      | 95%           |      |      |    |     |      |      | 3.6  | .6   | 2.0  |
|                                                                                      |       |                                |      |       |      |      | BC                |      |      | Coverage      |      |      |    |     |      |      | 10   | .9   | 3.0  |
|                                                                                      |       |                                |      |       |      |      | 10.0Ω/M'          |      |      | Inner:        |      |      |    |     |      |      | 71.5 | 2.1  | 6.9  |
|                                                                                      |       |                                |      |       |      |      | 32.8Ω/km          |      |      | 2.5Ω/M'       |      |      |    |     |      |      | 135  | 3.0  | 9.8  |
|                                                                                      |       |                                |      |       |      |      |                   |      |      | 8.2Ω/km       |      |      |    |     |      |      | 270  | 4.2  | 13.8 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      | Outer:        |      |      |    |     |      |      | 360  | 4.8  | 15.7 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      | 2.8Ω/M'       |      |      |    |     |      |      | 540  | 5.9  | 19.4 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      | 9.2Ω/km       |      |      |    |     |      |      | 720  | 7.0  | 23.0 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 750  | 7.1  | 23.3 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 1000 | 8.3  | 27.2 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 1500 | 10.5 | 34.4 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 2250 | 13.4 | 44.0 |
|                                                                                      |       |                                |      |       |      |      |                   |      |      |               |      |      |    |     |      |      | 3000 | 15.9 | 52.2 |

| Plenum • Foam FEP Insulation • Black FEP Jacket (FEP Insulation between Braids) |       |                                |       |       |      |      |                   |      |      |               |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------------------------|-------|--------------------------------|-------|-------|------|------|-------------------|------|------|---------------|------|------|----|-----|------|------|------|------|------|
| 200°C                                                                           | 88232 | NEC:<br>CMP<br>CEC:<br>CMG FT6 | 500†  | 152.4 | 31.0 | 14.1 | 20 AWG<br>(solid) | .140 | 3.56 | (2) BC Braids | .246 | 6.25 | 75 | 80% | 16.9 | 55.4 | 1    | .4   | 1.3  |
|                                                                                 |       |                                | 1000† | 304.8 | 61.0 | 27.7 | .032"             |      |      | 95%           |      |      |    |     |      |      | 3.6  | .6   | 2.0  |
|                                                                                 |       |                                |       |       |      |      | BC                |      |      | Coverage      |      |      |    |     |      |      | 10   | .8   | 2.6  |
|                                                                                 |       |                                |       |       |      |      | 10.0Ω/M'          |      |      | Inner:        |      |      |    |     |      |      | 71.5 | 2.2  | 7.2  |
|                                                                                 |       |                                |       |       |      |      | 32.8Ω/km          |      |      | 2.6Ω/M'       |      |      |    |     |      |      | 135  | 3.1  | 10.2 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      | 8.5Ω/km       |      |      |    |     |      |      | 270  | 4.5  | 14.8 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      | Outer:        |      |      |    |     |      |      | 360  | 5.3  | 17.4 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      | 2.6Ω/M'       |      |      |    |     |      |      | 540  | 6.6  | 21.6 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      | 8.5Ω/km       |      |      |    |     |      |      | 720  | 7.7  | 25.3 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      |               |      |      |    |     |      |      | 750  | 7.9  | 25.9 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      |               |      |      |    |     |      |      | 1000 | 9.4  | 30.8 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      |               |      |      |    |     |      |      | 1500 | 12.1 | 39.7 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      |               |      |      |    |     |      |      | 2250 | 15.6 | 51.2 |
|                                                                                 |       |                                |       |       |      |      |                   |      |      |               |      |      |    |     |      |      | 3000 | 18.7 | 61.3 |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.



## Video Triax Cable

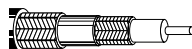
RG-59/U Type



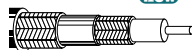
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**20 AWG Solid .032" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)** (continued)

| Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Violet or Black); Polyethylene Insulation between Braids |       |      |       |      |      |          |      |      |                                    |      |      |    |     |      |      |      |      |      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|------|------|----------|------|------|------------------------------------|------|------|----|-----|------|------|------|------|------|--|
| 80°C                                                                                                                                    | 1856A | 500  | 152.4 | 41.0 | 18.6 | 20 AWG   | .145 | 3.68 | (2) BC Braids                      | .360 | 9.14 | 75 | 83% | 16.2 | 53.1 | 1    | .3   | 1.0  |  |
|                                                        |       | 1000 | 304.8 | 83.0 | 37.7 | (solid)  |      |      | 95%                                |      |      |    |     |      |      | 3.6  | .6   | 1.8  |  |
|                                                                                                                                         |       |      |       |      |      | .032"    |      |      | Coverage                           |      |      |    |     |      |      | 10   | .8   | 2.7  |  |
|                                                                                                                                         |       |      |       |      |      | BC       |      |      | Inner:                             |      |      |    |     |      |      | 71.5 | 2.2  | 7.2  |  |
|                                                                                                                                         |       |      |       |      |      | 10.6Ω/M' |      |      | 2.5Ω/M'                            |      |      |    |     |      |      | 135  | 3.0  | 9.8  |  |
|                                                                                                                                         |       |      |       |      |      | 34.8Ω/km |      |      | 8.2Ω/km                            |      |      |    |     |      |      | 270  | 4.2  | 13.8 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      | Outer:                             |      |      |    |     |      |      | 360  | 4.8  | 15.7 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      | 100% Sweep tested. 5 MHz to 3 GHz. |      |      |    |     |      |      | 540  | 5.9  | 19.4 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      | 1.6Ω/M'                            |      |      |    |     |      |      | 720  | 6.9  | 22.6 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      | 5.3Ω/km                            |      |      |    |     |      |      | 750  | 7.1  | 23.3 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |                                    |      |      |    |     |      |      | 1000 | 8.8  | 28.9 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |                                    |      |      |    |     |      | 1500 | 12.0 | 39.4 |      |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |                                    |      |      |    |     |      | 2250 | 16.4 | 53.8 |      |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |                                    |      |      |    |     |      | 3000 | 20.4 | 66.9 |      |  |



| Gas-injected Foam HDPE Insulation • Belflex Jacket (Red, Yellow, Green, Blue, Violet or Black); PVC Insulation between Braids |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|------|-------|------|------|----------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                                                                                          | 1856B<br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1000 | 304.8 | 86.0 | 39.1 | 20 AWG<br>(solid)<br>.032"<br>BC<br>10.1Ω/M'<br>33.1Ω/km | .145 | 3.68 | (2) BC Braids<br>95%<br>Coverage<br>Inner:<br>2.5Ω/M'<br>8.2Ω/km<br>Outer:<br>1.6Ω/M'<br>5.2Ω/km | .360 | 9.14 | 75 | 83% | 16.2 | 53.1 | 1    | .3   | 1.0  |
|                                              |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 3.6  | .6   | 1.8  |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 10   | .8   | 2.7  |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 71.5 | 2.2  | 7.2  |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 135  | 3.0  | 9.8  |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 270  | 4.2  | 13.8 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 360  | 4.8  | 15.7 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 540  | 5.9  | 19.4 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 720  | 6.9  | 22.6 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 750  | 7.1  | 23.3 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 1000 | 8.8  | 28.9 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 1500 | 12.0 | 39.4 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 2250 | 16.4 | 53.8 |
|                                                                                                                               |                             |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 3000 | 20.4 | 66.9 |



| Gas-injected Foam HDPE Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids) |      |      |       |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      |      |      |     |
|---------------------------------------------------------------------------------------------------------------------------|------|------|-------|-------|------|------|----------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------|------|------|----|-----|------|------|------|------|-----|
| 80°C                                                                                                                      | 9267 |      | 500   | 152.4 | 39.5 | 18.0 | 20 AWG<br>(solid)<br>.032"<br>BC<br>10.0Ω/M'<br>32.8Ω/km | .145 | 3.68 | (2) BC Braids<br>95%<br>Coverage<br>Inner:<br>2.5Ω/M'<br>8.3Ω/km<br>Outer:<br>2.6Ω/M'<br>8.6Ω/km | .360 | 9.14 | 75 | 82% | 16.3 | 53.5 | 1    | .3   | 1.0 |
| VW-1                                                                                                                      |      | 1000 | 304.8 | 77.0  | 35.0 | 3.6  |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | .6   | 2.0  |     |
|                                                                                                                           |      |      |       |       |      | 10   |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | .9   | 3.0  |     |
|                                                                                                                           |      |      |       |       |      | 71.5 |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 2.1  | 6.9  |     |
|                                                                                                                           |      |      |       |       |      | 135  |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 2.9  | 9.5  |     |
|                                                                                                                           |      |      |       |       |      | 270  |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 4.2  | 13.8 |     |
|                                                                                                                           |      |      |       |       |      | 360  |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 4.8  | 15.7 |     |
|                                                                                                                           |      |      |       |       |      | 540  |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 6.0  | 19.7 |     |
|                                                                                                                           |      |      |       |       |      | 720  |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 6.7  | 22.0 |     |
|                                                                                                                           |      |      |       |       |      | 750  |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 6.9  | 22.6 |     |
|                                                                                                                           |      |      |       |       |      | 1000 |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 8.3  | 27.2 |     |
|                                                                                                                           |      |      |       |       |      | 1500 |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 10.5 | 34.4 |     |
|                                                                                                                           |      |      |       |       |      | 2250 |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 13.4 | 44.0 |     |
|                                                                                                                           |      |      |       |       |      | 3000 |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 15.9 | 52.2 |     |
| Suitable for Outdoor and Direct Burial applications.                                                                      |      |      |       |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      |      |      |     |

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

Hypalon is a DuPont trademark.

# Video Triax Cable

RG-11/U Type

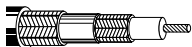
75 Ohms



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

## 15 AWG Stranded (19x27) .064" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)

| Foam Polyethylene Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Violet or Black: Polyethylene Insulation between Braids) |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      |      |     |      |
|------------------------------------------------------------------------------------------------------------------------------------|-------|--|------|-------|-------|------|--------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| High-Flex<br>80°C                                                                                                                  | 1858A |  | 500  | 152.4 | 81.0  | 36.8 | 15 AWG<br>(19x27)<br>.064"<br>BC<br>3.0Ω/M'<br>9.8Ω/km | .312 | 7.92 | (2) BC Braids<br>95%<br>Coverage<br>Inner:<br>1.6Ω/M'<br>5.2Ω/km<br>Outer:<br>1.4Ω/M'<br>4.6Ω/km | .520 | 13.20 | 75 | 78% | 17.3 | 56.8 | 1    | .1  | .3   |
|                                                                                                                                    |       |  | 1000 | 304.8 | 158.0 | 71.8 |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 3.6  | .3  | 1.0  |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 10   | .5  | 1.6  |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 71.5 | 1.2 | 3.9  |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 135  | 1.8 | 5.9  |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 270  | 2.6 | 8.5  |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 360  | 3.1 | 10.2 |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 540  | 3.9 | 12.8 |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 720  | 4.7 | 15.4 |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 750  | 4.8 | 15.7 |
|                                                                                                                                    |       |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 1000 | 5.7 | 18.7 |

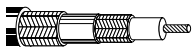


| Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket (Fluorocopolymer Insulation between Braids) |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      |      |     |      |
|---------------------------------------------------------------------------------------------------------|-------|--------------------------------|------|-------|-------|------|--------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| 125°C                                                                                                   | 1859A | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 500  | 152.4 | 66.5  | 30.2 | 15 AWG<br>(19x27)<br>.064"<br>BC<br>3.0Ω/M'<br>9.8Ω/km | .285 | 7.24 | (2) BC Braids<br>95%<br>Coverage<br>Inner:<br>1.4Ω/M'<br>4.6Ω/km<br>Outer:<br>1.4Ω/M'<br>4.6Ω/km | .406 | 10.30 | 75 | 80% | 16.5 | 54.1 | 1    | .1  | .3   |
|                                                                                                         |       |                                | 1000 | 304.8 | 134.0 | 60.9 |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 3.6  | .2  | .7   |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 10   | .5  | 1.6  |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 71.5 | 1.3 | 4.3  |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 135  | 1.9 | 6.2  |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 270  | 3.0 | 9.8  |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 360  | 3.6 | 11.8 |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 540  | 4.5 | 14.8 |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 720  | 5.4 | 17.7 |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 750  | 5.6 | 18.4 |
|                                                                                                         |       |                                |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 1000 | 6.6 | 21.6 |

Suitable for Outdoor and Direct Burial applications.

## 15 AWG Stranded (19x27) .064" Bare Copper • Two Bare Copper Braids (90% Shield Coverage)

| Foam Polyethylene Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids) |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      |      |     |      |
|-------------------------------------------------------------------------------------------|------|--------------|------|-------|-------|------|--------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| UL AWM<br>Style 1641<br>(30V 80°C)<br>VW-1                                                | 9192 | NEC:<br>CL2X | 500  | 304.8 | 150.0 | 68.2 | 15 AWG<br>(19x27)<br>.064"<br>BC<br>3.0Ω/M'<br>9.8Ω/km | .312 | 7.92 | (2) BC Braids<br>90%<br>Coverage<br>Inner:<br>1.6Ω/M'<br>5.2Ω/km<br>Outer:<br>1.6Ω/M'<br>5.2Ω/km | .520 | 13.20 | 75 | 78% | 17.3 | 56.8 | 1    | .1  | .3   |
|                                                                                           |      |              | 1000 | 304.8 | 150.0 | 68.2 |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 3.6  | .3  | 1.0  |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 10   | .5  | 1.6  |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 71.5 | 1.2 | 3.9  |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 135  | 1.8 | 5.9  |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 270  | 2.6 | 8.5  |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 360  | 3.1 | 10.2 |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 540  | 3.9 | 12.8 |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 720  | 4.7 | 15.4 |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 750  | 4.8 | 15.7 |
|                                                                                           |      |              |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 1000 | 5.7 | 18.7 |



| Foam Polyethylene Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids) |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      |      |     |      |
|----------------------------------------------------------------------------------------------------------------------|------|--|------|-------|-------|------|--------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| UL AWM<br>Style 1641<br>(30V 60°C)<br>VW-1                                                                           | 9232 |  | 500  | 152.4 | 42.5  | 19.3 | 15 AWG<br>(19x27)<br>.064"<br>BC<br>3.0Ω/M'<br>9.8Ω/km | .312 | 7.92 | (2) BC Braids<br>90%<br>Coverage<br>Inner:<br>1.6Ω/M'<br>5.2Ω/km<br>Outer:<br>1.7Ω/M'<br>5.2Ω/km | .520 | 13.20 | 75 | 78% | 17.3 | 56.8 | 1    | .1  | .3   |
|                                                                                                                      |      |  | 1000 | 304.8 | 145.0 | 65.9 |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 3.6  | .3  | 1.0  |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 10   | .5  | 1.6  |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 71.5 | 1.2 | 3.9  |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 135  | 1.8 | 5.9  |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 270  | 2.6 | 8.5  |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 360  | 3.1 | 10.2 |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 540  | 3.9 | 12.8 |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 720  | 4.7 | 15.4 |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 750  | 4.8 | 15.7 |
|                                                                                                                      |      |  |      |       |       |      |                                                        |      |      |                                                                                                  |      |       |    |     |      |      | 1000 | 5.7 | 18.7 |

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of cables not listed.

Hypalon is a DuPont trademark.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

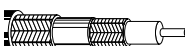
## Video Triax Cable

RG-11/U Type

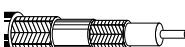


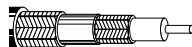
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**14 AWG Solid .064" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)**

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids) |      |       |       |       |         |        |      |      |               |      |       |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------|------|-------|-------|-------|---------|--------|------|------|---------------|------|-------|----|-----|------|------|------|------|------|
| 80°C                                                                                                   | 8233 | 500   | 152.4 | 63.0  | 28.6    | 14 AWG | .285 | 7.24 | (2) BC Braids | .475 | 12.07 | 75 | 84% | 16.1 | 52.8 | 1    | .2   | .7   |
|                       | 1000 | 304.8 | 122.0 | 55.5  | (solid) |        |      |      | 95%           |      |       |    |     |      |      | 3.6  | .3   | 1.0  |
|                                                                                                        | 2000 | 609.6 | 240.0 | 109.1 | .064"   |        |      |      | Coverage      |      |       |    |     |      |      | 10   | .4   | 1.3  |
|                                                                                                        |      |       |       |       | BC      |        |      |      | Inner:        |      |       |    |     |      |      | 71.5 | 1.1  | 3.6  |
|                                                                                                        |      |       |       |       | 2.5Ω/M' |        |      |      | 1.6Ω/M'       |      |       |    |     |      |      | 135  | 1.5  | 4.9  |
|                                                                                                        |      |       |       |       | 8.2Ω/km |        |      |      | 5.2Ω/km       |      |       |    |     |      |      | 270  | 2.3  | 7.5  |
|                                                                                                        |      |       |       |       |         |        |      |      | Outer:        |      |       |    |     |      |      | 360  | 2.7  | 8.9  |
|                                                                                                        |      |       |       |       |         |        |      |      | 1.4Ω/M'       |      |       |    |     |      |      | 540  | 3.5  | 11.5 |
|                                                                                                        |      |       |       |       |         |        |      |      | 4.6Ω/km       |      |       |    |     |      |      | 720  | 4.2  | 13.8 |
| 100% Sweep tested. 5 MHz to 3 GHz.                                                                     |      |       |       |       |         |        |      |      |               |      |       |    |     |      |      | 750  | 4.3  | 14.1 |
|                                                                                                        |      |       |       |       |         |        |      |      |               |      |       |    |     |      |      | 1000 | 5.2  | 17.1 |
|                                                                                                        |      |       |       |       |         |        |      |      |               |      |       |    |     |      |      | 1500 | 7.1  | 23.3 |
|                                                                                                        |      |       |       |       |         |        |      |      |               |      |       |    |     |      |      | 2250 | 9.6  | 31.5 |
|                                                                                                        |      |       |       |       |         |        |      |      |               |      |       |    |     |      |      | 3000 | 12.0 | 39.4 |
| Suitable for Outdoor and Direct Burial applications.                                                   |      |       |       |       |         |        |      |      |               |      |       |    |     |      |      |      |      |      |

Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket (PVC Insulation between Braids) |                                                                                                   |         |      |        |       |       |         |      |      |               |      |       |    |     |      |                                    |      |      |      |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------|------|--------|-------|-------|---------|------|------|---------------|------|-------|----|-----|------|------------------------------------|------|------|------|
| 80°C                                                                                 | <b>8233A</b><br> | NEC:    | 1000 | 304.8  | 142.0 | 64.5  | 14 AWG  | .285 | 7.24 | (2) BC Braids | .475 | 12.07 | 75 | 84% | 16.1 | 52.8                               | 1    | .2   | .7   |
|                                                                                      |                                                                                                   | CMR     | 2000 | 609.6  | 240.0 | 109.1 | (solid) |      |      | 95%           |      |       |    |     |      |                                    | 3.6  | .3   | 1.0  |
|                                                                                      |                                                                                                   | CEC:    | 4000 | 1219.2 | 574.0 | 260.9 | .064"   |      |      | Coverage      |      |       |    |     |      |                                    | 10   | .4   | 1.3  |
|                                                                                      |                                                                                                   | CMG FT4 |      |        |       |       | BC      |      |      | Inner:        |      |       |    |     |      |                                    | 71.5 | 1.1  | 3.6  |
|                                                                                      |                                                                                                   |         |      |        |       |       | 2.5Ω/M' |      |      | 1.6Ω/M'       |      |       |    |     |      |                                    | 135  | 1.5  | 4.9  |
|                                                                                      |                                                                                                   |         |      |        |       |       | 8.2Ω/km |      |      | 5.2Ω/km       |      |       |    |     |      |                                    | 270  | 2.3  | 7.5  |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      | Outer:        |      |       |    |     |      |                                    | 360  | 2.7  | 8.9  |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      | 1.4Ω/M'       |      |       |    |     |      |                                    | 540  | 3.5  | 11.5 |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      | 4.6Ω/km       |      |       |    |     |      |                                    | 720  | 4.2  | 13.8 |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      |               |      |       |    |     |      |                                    | 750  | 4.3  | 14.1 |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 1000                               | 5.2  | 17.1 |      |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 1500                               | 7.1  | 23.3 |      |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 2250                               | 9.6  | 31.5 |      |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 3000                               | 12.0 | 39.4 |      |
|                                                                                      |                                                                                                   |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 100% Sweep tested. 5 MHz to 3 GHz. |      |      |      |

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (PE Insulation between Braids; Flooding Compound on Outer Braid) |              |                                                                                     |            |       |       |       |         |         |      |               |      |       |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|------------|-------|-------|-------|---------|---------|------|---------------|------|-------|----|-----|------|------|------|------|------|
| Flooded                                                                                                                        | <b>7803A</b> |  | 500        | 152.4 | 64.0  | 29.1  | 14 AWG  | .285    | 7.24 | (2) BC Braids | .475 | 12.07 | 75 | 84% | 16.1 | 52.8 | 1    | .2   | .7   |
| 80°C                                                                                                                           |              |                                                                                     | <b>new</b> | 1000  | 304.8 | 123.0 | 55.9    | (solid) |      | 95%           |      |       |    |     |      |      | 3.6  | .3   | 1.0  |
|                                                                                                                                |              |                                                                                     |            | 3000  | 914.4 | 381.0 | 173.2   | .064"   |      | Coverage      |      |       |    |     |      |      | 10   | .4   | 1.3  |
|                                                                                                                                |              |                                                                                     |            |       |       |       |         | BC      |      | Inner:        |      |       |    |     |      |      | 71.5 | 1.1  | 3.6  |
|                                                                                                                                |              |                                                                                     |            |       |       |       | 2.5Ω/M' |         |      | 1.6Ω/M'       |      |       |    |     |      |      | 135  | 1.5  | 4.9  |
|                                                                                                                                |              |                                                                                     |            |       |       |       | 8.2Ω/km |         |      | 5.2Ω/km       |      |       |    |     |      |      | 270  | 2.3  | 7.5  |
|                                                                                                                                |              |                                                                                     |            |       |       |       |         |         |      | Outer:        |      |       |    |     |      |      | 360  | 2.7  | 8.9  |
|                                                                                                                                |              |                                                                                     |            |       |       |       |         |         |      | 1.4Ω/M'       |      |       |    |     |      |      | 540  | 3.5  | 11.5 |
|                                                                                                                                |              |                                                                                     |            |       |       |       |         |         |      | 4.6Ω/km       |      |       |    |     |      |      | 720  | 4.2  | 13.8 |
|                                                                                                                                |              |                                                                                     |            |       |       |       |         |         |      |               |      |       |    |     |      |      | 1000 | 5.2  | 17.1 |
| 100% Sweep tested. 5 MHz to 3 GHz.                                                                                             |              |                                                                                     |            |       |       |       |         |         |      |               |      |       |    |     |      |      | 1500 | 7.1  | 23.3 |
|                                                                                                                                |              |                                                                                     |            |       |       |       |         |         |      |               |      |       |    |     |      |      | 2250 | 9.6  | 31.5 |
|                                                                                                                                |              |                                                                                     |            |       |       |       |         |         |      |               |      |       |    |     |      |      | 3000 | 12.0 | 39.4 |

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • PE = Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

## DS-3 and DS-4 Interconnect and Cross-connect Cable

735A\* Series

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal Attenuation        |     |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|----------------------------|-----|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | Stand.<br>Signal<br>(Mb/s) | MHz | dB/<br>100 Ft. | dB/<br>100m |

**26 AWG Solid .016" (.40mm) Silver-plated Copper • Beldfoil® + 93% Tinned Copper Braid**

| Foam HDPE Insulation • Overall Gray PVC Jacket (Multiple coaxes feature inner Gray PVC jackets w/printed nos. for circuit ID) |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      |        |       |     |      |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|----------|-------------|----------------|--------------|-------------|------------------------------------------------------------|------|------|------------------------------------------------------|-------------------|-------------------|----|-----|------|------|--------|-------|-----|------|
|                                               | <b>735A1</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1        | 500<br>1000 | 152.4<br>304.8 | 7.0<br>12.0  | 3.2<br>5.5  | 26 AWG<br>(solid)<br>.016"<br>SPC<br>41.0Ω/M'<br>134.2Ω/km | .077 | 1.95 | Beldfoil<br>+ 93% TC<br>Braid<br>5.3Ω/M'<br>17.3Ω/km | .129              | 3.38              | 75 | 76% | 17.7 | 58.0 | 2      | 1.0   | .6  | 2.0  |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | CEPT-1 | 1.0   | .6  | 2.0  |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | CEPT-2 | 4.2   | 1.1 | 3.6  |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | 10     | 5.0   | 1.2 | 3.9  |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | 20     | 10.0  | 1.7 | 5.6  |
|                                               | <b>735A1T</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1<br>w/T | 500<br>1000 | 152.4<br>304.8 | 7.5<br>15.0  | 3.4<br>6.8  | same<br>as<br>above                                        | .077 | 1.95 | same<br>as<br>above                                  | .129<br>x<br>.203 | 3.38<br>x<br>5.16 |    |     |      |      | CEPT-3 | 17.2  | 2.2 | 7.2  |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | DS-3   | 22.4  | 2.5 | 8.2  |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | STS-1  | 25.9  | 2.7 | 8.9  |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | 89.472 | 44.7  | 3.6 | 11.8 |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | 100    | 50.0  | 3.8 | 12.5 |
|                                               | <b>735A2</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 2        | 500<br>1000 | 152.4<br>304.8 | 14.0<br>25.0 | 6.4<br>11.4 | same<br>as<br>above                                        | .077 | 1.95 | same<br>as<br>above                                  | .129<br>x<br>.258 | 3.38<br>x<br>6.55 |    |     |      |      | CEPT-4 | 69.6  | 4.5 | 14.8 |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | STS-3  | 77.8  | 4.8 | 15.7 |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | 200    | 100.0 | 5.5 | 18.0 |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | DS-4   | 137.1 | 6.4 | 21.0 |
|                                                                                                                               |                                     |                                |          |             |                |              |             |                                                            |      |      |                                                      |                   |                   |    |     |      |      | 400    | 200.0 | 7.8 | 25.6 |

Siamese versions feature zip cord design with printing on one leg.

|                                                                                  |                                     |                                |          |             |                |              |             |                     |      |      |                     |                   |                   |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------|-------------------------------------|--------------------------------|----------|-------------|----------------|--------------|-------------|---------------------|------|------|---------------------|-------------------|-------------------|--|--|--|--|--|--|--|--|
|  | <b>735A2T</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 2<br>w/T | 500<br>1000 | 152.4<br>304.8 | 15.0<br>27.0 | 6.8<br>12.3 | same<br>as<br>above | .077 | 1.95 | same<br>as<br>above | .129<br>x<br>.332 | 3.38<br>x<br>8.43 |  |  |  |  |  |  |  |  |
|                                                                                  |                                     |                                |          |             |                |              |             |                     |      |      |                     |                   |                   |  |  |  |  |  |  |  |  |

Siamese versions feature zip cord design with printing on one leg.

|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|----|-------------|----------------|----------------|---------------|---------------------|--------------------------|--------------|---------------------|------|-------|--|--|--|--|--|--|--|--|
|  | <b>735A3</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 3  | 500<br>1000 | 152.4<br>304.8 | 26.5<br>50.0   | 12.0<br>22.7  | same<br>as<br>above | .077<br>Coax OD:<br>.129 | 1.95<br>3.38 | same<br>as<br>above | .309 | 7.85  |  |  |  |  |  |  |  |  |
|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |
|  | <b>735A6</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 6  | 500<br>1000 | 152.4<br>304.8 | 45.5<br>92.0   | 20.7<br>41.8  | same<br>as<br>above | .077<br>Coax OD:<br>.129 | 1.95<br>3.38 | same<br>as<br>above | .399 | 10.14 |  |  |  |  |  |  |  |  |
|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |
|  | <b>735A8</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 8  | 500<br>1000 | 152.4<br>304.8 | 63.0<br>121.0  | 28.6<br>55.0  | same<br>as<br>above | .077<br>Coax OD:<br>.129 | 1.95<br>3.38 | same<br>as<br>above | .447 | 11.35 |  |  |  |  |  |  |  |  |
|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |
|  | <b>735A9</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 9  | 500<br>1000 | 152.4<br>304.8 | 69.5<br>133.0  | 31.6<br>60.5  | same<br>as<br>above | .077<br>Coax OD:<br>.129 | 1.95<br>3.38 | same<br>as<br>above | .484 | 12.29 |  |  |  |  |  |  |  |  |
|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |
|  | <b>735A12</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 12 | 500<br>1000 | 152.4<br>304.8 | 94.5<br>187.0  | 43.0<br>85.0  | same<br>as<br>above | .077<br>Coax OD:<br>.129 | 1.95<br>3.38 | same<br>as<br>above | .581 | 14.76 |  |  |  |  |  |  |  |  |
|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |
|  | <b>735A16</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 16 | 500<br>1000 | 152.4<br>304.8 | 123.5<br>250.0 | 56.1<br>113.6 | same<br>as<br>above | .077<br>Coax OD:<br>.129 | 1.95<br>3.38 | same<br>as<br>above | .636 | 16.19 |  |  |  |  |  |  |  |  |
|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |
|  | <b>735A24</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 24 | 1000        | 304.8          | 405.0          | 184.1         | same<br>as<br>above | .077<br>Coax OD:<br>.129 | 1.95<br>3.38 | same<br>as<br>above | .870 | 22.10 |  |  |  |  |  |  |  |  |
|                                                                                    |                                     |                                |    |             |                |                |               |                     |                          |              |                     |      |       |  |  |  |  |  |  |  |  |

**Plenum • Foam FEP Insulation • Gray Flamarrest® Jacket**

|                                                                                    |                                      |                                |   |             |                |             |            |                     |      |      |                     |      |      |    |     |      |      |                 |  |  |  |
|------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---|-------------|----------------|-------------|------------|---------------------|------|------|---------------------|------|------|----|-----|------|------|-----------------|--|--|--|
|  | <b>735A1P*</b><br><small>new</small> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | 500<br>1000 | 152.4<br>304.8 | 8.0<br>15.0 | 3.6<br>6.8 | same<br>as<br>above | .077 | 1.95 | same<br>as<br>above | .129 | 3.38 | 75 | 76% | 16.8 | 55.1 | (same as above) |  |  |  |
|                                                                                    |                                      |                                |   |             |                |             |            |                     |      |      |                     |      |      |    |     |      |      |                 |  |  |  |

100% Sweep tested.  
RL: 30 dB min. at 15 MHz to 95 MHz.

DCR = DC Resistance • HDPE = High-density Polyethylene • SPC = Silver-plated Copper • TC = Tinned Copper

See chart on page 6.56 for maximum transmission distances.

\*Lucent Technologies reference specification. Belden equivalent. Minimum Return Loss @ 55 MHz to 95 MHz = 35dB.



By:

INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

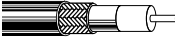
1-800-527-0010

# DS-3 and DS-4 Interconnect and Cross-connect Cable

734A\* and 734D\* Series

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No. of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal Attenuation        |     |                |             |
|-------------|----------|------------------------------|-----------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|----------------------------|-----|----------------|-------------|
|             |          |                              |                 | ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/ft.                 | pF/m | Stand.<br>Signal<br>(Mb/s) | MHz | dB/<br>100 Ft. | dB/<br>100m |

**20 AWG Solid .032" (.81mm) Copper • Beldfoil® + 85% Tinned Copper Braid**

| Foam HDPE Insulation • Overall Gray PVC Jacket (Multiple coaxes feature inner Gray PVC jackets w/printed nos. for circuit ID) |                                     |         |    |      |       |       |       |          |      |          |          |       |       |    |     |      |      |        |        |        |     |      |     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|----|------|-------|-------|-------|----------|------|----------|----------|-------|-------|----|-----|------|------|--------|--------|--------|-----|------|-----|
|                                              | <b>734A1</b><br><small>new</small>  | NEC:    | 1  | 500  | 152.4 | 16.5  | 7.5   | 20 AWG   | .148 | 3.67     | Beldfoil | .235  | 5.97  | 75 | 80% | 16.8 | 55.1 | 2      | 1.0    | .3     | .8  |      |     |
|                                                                                                                               |                                     | CMR     |    |      |       |       |       | (solid)  |      |          | + 85% TC |       |       |    |     |      |      |        | CEPT-1 | 1.0    | .3  | .9   |     |
|                                                                                                                               |                                     | CEC:    |    | 1000 | 304.8 | 33.0  | 15.0  | .032" BC |      |          | Braid    |       |       |    |     |      |      |        |        | CEPT-2 | 4.2 | .5   | 1.6 |
|                                                                                                                               |                                     | CMG FT4 |    |      |       |       |       | 10.0Ω/M' |      |          | 2.4Ω/M'  |       |       |    |     |      |      |        | 10     | 5.0    | .6  | 1.8  |     |
|                                                                                                                               |                                     |         |    |      |       |       |       | 32.8Ω/km |      |          | 7.9Ω/km  |       |       |    |     |      |      |        | 20     | 10.0   | .8  | 2.6  |     |
|                                              | <b>734A6</b><br><small>new</small>  | NEC:    | 6  | 500  | 152.4 | 141.0 | 64.1  | same     | .148 | 3.67     | same     | .772  | 19.61 |    |     |      |      | CEPT-3 | 17.2   | 1.0    | 3.2 |      |     |
|                                                                                                                               |                                     | CMR     |    |      |       |       |       | as       |      | Coax OD: |          | as    |       |    |     |      |      |        | DS-3   | 22.4   | 1.1 | 3.7  |     |
|                                                                                                                               |                                     | CEC:    |    | 1000 | 304.8 | 290.0 | 131.8 | above    |      | .235     | 5.97     | above |       |    |     |      |      |        | STS-1  | 25.9   | 1.2 | 4.0  |     |
|                                                                                                                               |                                     | CMG FT4 |    |      |       |       |       |          |      |          |          |       |       |    |     |      |      |        | 89.472 | 44.7   | 1.6 | 5.2  |     |
|                                                                                                                               |                                     |         |    |      |       |       |       |          |      |          |          |       |       |    |     |      |      | 100    | 50.0   | 1.7    | 5.6 |      |     |
|                                                                                                                               |                                     |         |    |      |       |       |       |          |      |          |          |       |       |    |     |      |      | CEPT-4 | 69.6   | 2.0    | 6.5 |      |     |
|                                                                                                                               |                                     |         |    |      |       |       |       |          |      |          |          |       |       |    |     |      |      | STS-3  | 77.8   | 2.1    | 6.9 |      |     |
|                                              | <b>734A12</b><br><small>new</small> | NEC:    | 12 | 500  | 152.4 | 283.0 | 128.4 | same     | .148 | 3.67     | same     | 1.026 | 26.06 |    |     |      |      | 200    | 100.0  | 2.5    | 8.2 |      |     |
|                                                                                                                               |                                     | CMR     |    |      |       |       |       | as       |      | Coax OD: |          | as    |       |    |     |      |      |        | DS-4   | 137.1  | 2.9 | 9.5  |     |
|                                                                                                                               |                                     | CEC:    |    | 1000 | 304.8 | 551.0 | 250.5 | above    |      | .235     | 5.97     | above |       |    |     |      |      |        | 400    | 200.0  | 3.6 | 11.8 |     |
|                                                                                                                               |                                     | CMG FT4 |    |      |       |       |       |          |      |          |          |       |       |    |     |      |      |        |        |        |     |      |     |

100% Sweep tested.  
RL: 30dB min. at  
15 MHz to 95 MHz.  
Non-plenum versions  
comply with  
Telcordia Specification  
GR-139-CORE.

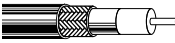
|        |       |     |      |
|--------|-------|-----|------|
| DS-3   | 22.4  | 1.1 | 3.7  |
| STS-1  | 25.9  | 1.2 | 4.0  |
| 89.472 | 44.7  | 1.6 | 5.2  |
| 100    | 50.0  | 1.7 | 5.6  |
| CEPT-4 | 69.6  | 2.0 | 6.5  |
| STS-3  | 77.8  | 2.1 | 6.9  |
| 200    | 100.0 | 2.5 | 8.2  |
| DS-4   | 137.1 | 2.9 | 9.5  |
| 400    | 200.0 | 3.6 | 11.8 |

**Plenum • Foam FEP Insulation • Gray Flamarrest® Jacket**

|                                                                                   |                                      |                                |   |             |                |              |             |                     |      |      |                     |      |      |    |     |      |      |                 |  |  |  |
|-----------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---|-------------|----------------|--------------|-------------|---------------------|------|------|---------------------|------|------|----|-----|------|------|-----------------|--|--|--|
|  | <b>734A1P*</b><br><small>new</small> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | 500<br>1000 | 152.4<br>304.8 | 18.0<br>34.0 | 8.2<br>15.5 | same<br>as<br>above | .148 | 3.67 | same<br>as<br>above | .215 | 5.46 | 75 | 80% | 17.3 | 56.7 | (same as above) |  |  |  |
|-----------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---|-------------|----------------|--------------|-------------|---------------------|------|------|---------------------|------|------|----|-----|------|------|-----------------|--|--|--|

100% Sweep tested.  
RL: 30dB min. at 15 MHz to 95 MHz.

**20 AWG Solid .032" (.81mm) Silver-plated Copper Conductor • Beldfoil + 85% Tinned Copper Braid**

| Foam HDPE Insulation • Overall Gray PVC Jacket (Multiple coaxes feature inner Gray PVC jackets w/printed nos. for circuit ID) |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      |        |       |     |      |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|----------|-------------|----------------|--------------|--------------|--------------------------------------------------------|------|------|-----------------------------------------------------|-------------------|--------------------|----|-----|------|------|--------|-------|-----|------|
|                                            | <b>734D1</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1        | 500<br>1000 | 152.4<br>304.8 | 17.0<br>34.0 | 7.7<br>15.5  | 20 AWG<br>(solid)<br>.032" SPC<br>10.0Ω/M'<br>32.8Ω/km | .148 | 3.67 | Beldfoil<br>+ 85% TC<br>Braid<br>2.4Ω/M'<br>7.9Ω/km | .235              | 5.97               | 75 | 80% | 16.8 | 55.1 | 2      | 1.0   | .3  | .8   |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | CEPT-1 | 1.0   | .3  | .9   |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | CEPT-2 | 4.2   | .5  | 1.6  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | 10     | 5.0   | .6  | 1.8  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | 20     | 10.0  | .8  | 2.6  |
|                                            | <b>734D1T</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1<br>w/T | 500<br>1000 | 152.4<br>304.8 | 19.0<br>37.0 | 8.6<br>16.8  | same<br>as<br>above                                    | .148 | 3.67 | same<br>as<br>above                                 | .235<br>x<br>.309 | 5.97<br>x<br>7.85  |    |     |      |      | CEPT-3 | 17.2  | 1.0 | 3.2  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | DS-3   | 22.4  | 1.1 | 3.7  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | STS-1  | 25.9  | 1.2 | 4.0  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | 89.472 | 44.7  | 1.6 | 5.2  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | 100    | 50.0  | 1.7 | 5.6  |
|                                            | <b>734D2</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 2        | 500<br>1000 | 152.4<br>304.8 | 35.5<br>65.0 | 16.1<br>29.5 | same<br>as<br>above                                    | .148 | 3.67 | same<br>as<br>above                                 | .235<br>x<br>.470 | 5.97<br>x<br>11.95 |    |     |      |      | CEPT-4 | 69.6  | 2.0 | 6.5  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | STS-3  | 77.8  | 2.1 | 6.9  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | 200    | 100.0 | 2.5 | 8.2  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | DS-4   | 137.1 | 2.9 | 9.5  |
|                                                                                                                               |                                     |                                |          |             |                |              |              |                                                        |      |      |                                                     |                   |                    |    |     |      |      | 400    | 200.0 | 3.6 | 11.8 |

Siamese versions feature zip cord design with printing on one leg.

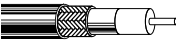
|                                                                                     |                                     |                                |   |                 |                |              |              |                     |      |      |                     |                   |                    |  |  |  |  |       |      |     |     |
|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|---|-----------------|----------------|--------------|--------------|---------------------|------|------|---------------------|-------------------|--------------------|--|--|--|--|-------|------|-----|-----|
|  | <b>734D2T</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 2 | 500<br>w/T 1000 | 152.4<br>304.8 | 39.0<br>72.0 | 17.7<br>32.7 | same<br>as<br>above | .148 | 3.67 | same<br>as<br>above | .235<br>x<br>.550 | 5.97<br>x<br>13.97 |  |  |  |  | DS-3  | 22.4 | 1.1 | 3.7 |
|                                                                                     |                                     |                                |   |                 |                |              |              |                     |      |      |                     |                   |                    |  |  |  |  | STS-1 | 25.9 | 1.2 | 4.0 |

Siamese versions feature zip cord design with printing on one leg.

|                                                                                     |                                     |                                |    |             |                |                |                |                     |                          |              |                     |       |       |  |  |  |  |        |      |     |     |
|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|----|-------------|----------------|----------------|----------------|---------------------|--------------------------|--------------|---------------------|-------|-------|--|--|--|--|--------|------|-----|-----|
|  | <b>734D6</b><br><small>new</small>  | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 6  | 500<br>1000 | 152.4<br>304.8 | 141.0<br>290.0 | 64.1<br>131.8  | same<br>as<br>above | .148<br>Coax OD:<br>.235 | 3.67<br>5.97 | same<br>as<br>above | .772  | 19.61 |  |  |  |  | 89.472 | 44.7 | 1.6 | 5.2 |
|                                                                                     |                                     |                                |    |             |                |                |                |                     |                          |              |                     |       |       |  |  |  |  | 100    | 50.0 | 1.7 | 5.6 |
|  | <b>734D12</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 12 | 500<br>1000 | 152.4<br>304.8 | 284.5<br>555.0 | 129.3<br>252.3 | same<br>as<br>above | .148<br>Coax OD:<br>.235 | 3.67<br>5.97 | same<br>as<br>above | 1.026 | 26.06 |  |  |  |  | CEPT-4 | 69.6 | 2.0 | 6.5 |
|                                                                                     |                                     |                                |    |             |                |                |                |                     |                          |              |                     |       |       |  |  |  |  | STS-3  | 77.8 | 2.1 | 6.9 |

100% Sweep tested.  
RL: 30dB min. at 15 MHz to 95 MHz.  
Non-plenum versions comply with  
Telcordia Specification GR-139-CORE.

**Plenum • Foam FEP Insulation • Gray Flamarrest Jacket**

|                                                                                     |                                      |                                |   |             |                |              |             |                     |      |      |                     |      |      |    |     |      |      |                 |  |  |  |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---|-------------|----------------|--------------|-------------|---------------------|------|------|---------------------|------|------|----|-----|------|------|-----------------|--|--|--|
|  | <b>734D1P*</b><br><small>new</small> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | 500<br>1000 | 152.4<br>304.8 | 18.0<br>34.0 | 8.2<br>15.5 | same<br>as<br>above | .148 | 3.67 | same<br>as<br>above | .215 | 5.46 | 75 | 80% | 17.3 | 56.7 | (same as above) |  |  |  |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---|-------------|----------------|--------------|-------------|---------------------|------|------|---------------------|------|------|----|-----|------|------|-----------------|--|--|--|

100% Sweep tested.  
RL: 30dB min. at 15 MHz to 95 MHz.

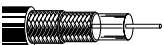
BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • SPC = Silver-plated Copper • TC = Tinned Copper

See chart on page 6.56 for maximum transmission distances.

\*Lucent Technologies reference specification. Belden equivalent.

## DS-3 and DS-4 Interconnect and Cross-connect Cable

728A\* and 720A\* Series

| Description                                                                                                                         | Part No.               | UL NEC/<br>C(UL) CEC<br>Type   | No.<br>of<br>Cond. | Standard<br>Lengths |       | Standard<br>Unit Weight |      | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR        | Nominal<br>Core OD |      | Shielding<br>Materials<br>Nom. DCR                                 | Nominal OD |      | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal Attenuation        |     |                |             |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------|--------------------|---------------------|-------|-------------------------|------|---------------------------------------------------------|--------------------|------|--------------------------------------------------------------------|------------|------|---------------------|-----------------------------|------------------------|------|----------------------------|-----|----------------|-------------|
|                                                                                                                                     |                        |                                |                    | Ft.                 | m     | Lbs.                    | kg   |                                                         | Inch               | mm   |                                                                    | Inch       | mm   |                     |                             | pF/Ft.                 | pF/m | Stand.<br>Signal<br>(Mb/s) | MHz | dB/<br>100 Ft. | dB/<br>100m |
| <b>20 AWG Solid .031" Bare Copper • Two Tinned Copper Braids (98% Shield Coverage)</b>                                              |                        |                                |                    |                     |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
| <b>Polyethylene Insulation • Gray Non-contaminating PVC Jacket</b>                                                                  |                        |                                |                    |                     |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
| Double Braid<br>VW-1                                                                                                                | <b>9231</b><br>(728A*) | NEC:<br>CMH<br>CEC:<br>CMH FT1 | 1                  | 500                 | 152.4 | 38.0                    | 17.3 | 20 AWG<br>(solid)<br>.031"<br>BC<br>9.9Ω/M'<br>32.5Ω/km | .198               | 5.03 | TC Double<br>Braid<br>98% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .305       | 7.75 | 75                  | 66%                         | 20.5                   | 68.9 | 2                          | 1.0 | .3             | .8          |
|                                                     |                        | CEPT-1                         | 1.0                | .3                  | .8    |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | CEPT-2                         | 4.2                | .5                  | 1.7   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | 10                             | 5.0                | .6                  | 1.8   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | 20                             | 10.0               | .8                  | 2.6   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | CEPT-3                         | 17.2               | 1.0                 | 3.2   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | DS-3                           | 22.4               | 1.1                 | 3.6   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | STS-1                          | 25.9               | 1.2                 | 3.8   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | 89.472                         | 44.7               | 1.4                 | 4.7   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     |                        | 100                            | 50.0               | 1.5                 | 4.9   |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     | CEPT-4                 | 69.6                           | 2.0                | 6.5                 |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     | STS-3                  | 77.8                           | 2.2                | 7.2                 |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     | 200                    | 100.0                          | 2.7                | 8.9                 |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     | DS-4                   | 137.1                          | 3.1                | 10.2                |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
|                                                                                                                                     | 400                    | 200.0                          | 3.7                | 12.1                |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |
| 100% Sweep tested.<br>RL: 30dB min. at 15 MHz to 95 MHz.<br>Non-plenum versions comply with<br>Telcordia Specification GR-139-CORE. |                        |                                |                    |                     |       |                         |      |                                                         |                    |      |                                                                    |            |      |                     |                             |                        |      |                            |     |                |             |

100% Sweep tested.  
RL: 30dB min. at 15 MHz to 95 MHz.  
Non-plenum versions comply with  
Telcordia Specification GR-139-CORE.

**720A\* Series** Belden 720A Coaxial Cable Series is available by special request.  
Contact the Belden Customer Service Department for quotes. 1-800-BELDEN-1.

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

See table below for maximum transmission distances.

\*Lucent Technologies reference specification. Belden equivalent.

### Maximum Transmission Distances for DS-3 and DS-4 Cable

| Data Rates:                   | DS-3<br>(44.736 Mb/s) |                   | STS-1<br>(51.86 Mb/s) |                   | DS-4Na (CEPT-4)<br>(139.264 Mb/s) |                  | STS-3<br>(155.520 Mb/s) |                  | DS-4<br>(274.176 Mb/s) |                  |
|-------------------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------------------|------------------|-------------------------|------------------|------------------------|------------------|
| Belden Part No.               | Interconnect          | X-Connect         | Interconnect          | X-Connect         | Interconnect                      | X-Connect        | Interconnect            | X-Connect        | Interconnect           | X-Connect        |
| <b>735A Series and 7351AP</b> | 225 ft.<br>(68.6m)    | 21 ft.<br>(6.4m)  | 210 ft.<br>(64.0m)    | 20 ft.<br>(6.1m)  | 125 ft.<br>(38.1m)                | 13 ft.<br>(4.0m) | 120 ft.<br>(36.6m)      | 11 ft.<br>(3.4m) | 90 ft.<br>(27.4m)      | 8 ft.<br>(2.4m)  |
| <b>734A and 734D Series</b>   | 450 ft.<br>(137.2m)   | 43 ft.<br>(13.1m) | 420 ft.<br>(128.0m)   | 40 ft.<br>(12.2m) | 250 ft.<br>(76.2m)                | 24 ft.<br>(7.3m) | 240 ft.<br>(73.2m)      | 22 ft.<br>(6.7m) | 180 ft.<br>(54.9m)     | 17 ft.<br>(5.2m) |
| <b>734A1P and 734D1P</b>      | 435 ft.<br>(132m)     | 43 ft.<br>(13m)   | 410 ft.<br>(125m)     | 40 ft.<br>(12m)   | 240 ft.<br>(73m)                  | 24 ft.<br>(7m)   | 225 ft.<br>(68m)        | 22 ft.<br>(8m)   | 170 ft.<br>(52m)       | 17 ft.<br>(5m)   |
| <b>728A</b>                   | 425 ft.<br>(129.5m)   | —                 | 380 ft.<br>(115.8m)   | —                 | 220 ft.<br>(67.1m)                | —                | 210 ft.<br>(64.0m)      | —                | 155 ft.<br>(47.2m)     | —                |
| <b>720A Series</b>            | 225 ft.<br>(68.6m)    | 25 ft.<br>(7.6m)  | 230 ft.<br>(70.1m)    | 23 ft.<br>(7.0m)  | 140 ft.<br>(42.7m)                | 14 ft.<br>(4.3m) | 130 ft.<br>(39.6m)      | 13 ft.<br>(4.0m) | 100 ft.<br>(30.5m)     | 9 ft.<br>(2.7m)  |

DS = Digital Signal • STS = Synchronous Transmission Signal • CEPT = European Conference of Postal and Telecommunications Administrations

Please note: The signal loss budget for individual installations will affect the exact transmission distance.





# Low Loss 50 Ohm Wireless RF Transmission Cable

## RG-174 Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                              |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### RG-174 Type • 25 AWG Solid .018" Bare Copper • Duofoil® + 90% Tinned Copper Braid Shield

| Solid Polyethylene Insulation • Black PVC Jacket                                                                               |                                           |      |       |      |     |           |      |      |          |      |      |    |     |      |       |       |      |       |       |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------|-------|------|-----|-----------|------|------|----------|------|------|----|-----|------|-------|-------|------|-------|-------|
| <div>RF100A</div> <div>80°C</div> <div></div> | <div>7805</div> <div><div>new</div></div> | 100  | 30.5  | 2.4  | 1.1 | 25 AWG    | .061 | 1.55 | Duofoil  | .110 | 2.79 | 50 | 66% | 31.2 | 102.4 | 30    | 3.8  | 12.4  |       |
|                                                                                                                                |                                           | 500  | 152.4 | 6.0  | 2.7 | (solid)   |      |      | + 90% TC |      |      |    |     |      |       | 50    | 4.9  | 16.1  |       |
|                                                                                                                                |                                           | 1000 | 304.8 | 10.0 | 4.5 | .018"     |      |      | Braid    |      |      |    |     |      |       | 150   | 8.6  | 28.2  |       |
|                                                                                                                                |                                           |      |       |      |     | BC        |      |      | 9.1Ω/M'  |      |      |    |     |      |       | 220   | 10.4 | 34.2  |       |
|                                                                                                                                |                                           |      |       |      |     | 32.0Ω/M'  |      |      | 29.9Ω/km |      |      |    |     |      |       | 450   | 15.2 | 49.9  |       |
|                                                                                                                                |                                           |      |       |      |     | 105.0Ω/km |      |      |          |      |      |    |     |      |       | 900   | 22.0 | 72.3  |       |
|                                                                                                                                |                                           |      |       |      |     |           |      |      |          |      |      |    |     |      |       | 1500  | 28.7 | 94.3  |       |
|                                                                                                                                |                                           |      |       |      |     |           |      |      |          |      |      |    |     |      |       | 1800  | 31.7 | 104.0 |       |
|                                                                                                                                |                                           |      |       |      |     |           |      |      |          |      |      |    |     |      |       | 2000  | 33.4 | 109.7 |       |
|                                                                                                                                |                                           |      |       |      |     |           |      |      |          |      |      |    |     |      |       | 2500  | 37.8 | 124.2 |       |
| 100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.                                                                                    |                                           |      |       |      |     |           |      |      |          |      |      |    |     |      |       |       | 3000 | 42.0  | 137.8 |
|                                                                                                                                |                                           |      |       |      |     |           |      |      |          |      |      |    |     | 4500 | 52.3  | 171.5 |      |       |       |
|                                                                                                                                |                                           |      |       |      |     |           |      |      |          |      |      |    |     | 5800 | 60.9  | 199.8 |      |       |       |
|                                                                                                                                |                                           |      |       |      |     |           |      |      |          |      |      |    |     | 6000 | 62.0  | 203.3 |      |       |       |

Mates with standard RG-174 connectors.

Mates with standard RG-174 connectors.

### RG-174 Type • 24.5 AWG Solid .020" Bare Copper • Duofoil + 90% Tinned Copper Braid Shield

| Foam HDPE Insulation • Gray PVC Jacket                                                                                          |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       |      |      |       |      |       |      |      |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------|-------|------|-----|----------|------|------|----------|------|------|----|-------|------|------|-------|------|-------|------|------|
| <div>RF100LL</div> <div>80°C</div> <div></div> | <div>7805R</div> <div><div>new</div></div> | NEC:                                        | 100  | 30.5  | 2.4  | 1.1 | 24.5 AWG | .060 | 1.52 | Duofoil  | .110 | 2.79 | 50 | 73.5% | 26.2 | 86.0 | 30    | 3.5  | 11.5  |      |      |
|                                                                                                                                 |                                            | CMR                                         | 500  | 152.4 | 6.0  | 2.7 | (solid)  |      |      | + 90% TC |      |      |    |       |      |      | 50    | 4.6  | 15.0  |      |      |
|                                                                                                                                 |                                            | CEC:                                        | 1000 | 304.8 | 10.0 | 4.5 | .020"    |      |      | Braid    |      |      |    |       |      |      | 150   | 8.0  | 26.1  |      |      |
|                                                                                                                                 |                                            | CMG FT4                                     |      |       |      |     | BC       |      |      | 9.4Ω/M'  |      |      |    |       |      |      | 220   | 9.6  | 31.6  |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     | 27.3Ω/M' |      |      | 30.8Ω/km |      |      |    |       |      |      | 450   | 14.0 | 46.1  |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     | 94.2Ω/km |      |      |          |      |      |    |       |      |      | 900   | 20.2 | 66.4  |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       |      |      | 1500  | 26.6 | 87.3  |      |      |
|                                                                                                                                 |                                            | 100% Sweep tested. 6 GHz. Max. VSWR 1.25:1. |      |       |      |     |          |      |      |          |      |      |    |       |      |      |       |      | 1800  | 29.5 | 96.7 |
|                                                                                                                                 |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       |      |      | 2000  | 31.2 | 102.3 |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       |      |      | 2500  | 35.4 | 116.3 |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       | 3000 | 39.4 | 129.2 |      |       |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       | 4500 | 50.0 | 164.2 |      |       |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       | 5800 | 59.0 | 193.6 |      |       |      |      |
|                                                                                                                                 |                                            |                                             |      |       |      |     |          |      |      |          |      |      |    |       | 6000 | 60.6 | 198.7 |      |       |      |      |

Mates with standard RG-174 connectors.

Mates with standard RG-174 connectors.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper



# Low Loss 50 Ohm Wireless RF Transmission Cable

## RG-58 Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                              |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### RG-58 Type • 19 AWG Solid .037" Bare Copper • Duofoil® + 90% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      |      |      |       |
|---------------------------------------------------------------|---------------------|--|------|-------|------|------|---------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------|------|------|----|-----|------|------|------|------|-------|
| RF195<br>80°C                                                 | 7806A<br><b>new</b> |  | 500  | 152.4 | 14.5 | 6.6  | 19 AWG<br>(solid)<br>.037"<br>BC<br>7.6 $\Omega$ /M'<br>24.9 $\Omega$ /km | .110 | 2.79 | Duofoil<br>+ 90% TC<br>Braid<br>4.2 $\Omega$ /M'<br>13.8 $\Omega$ /km | .195 | 4.95 | 50 | 77% | 24.3 | 79.7 | 30   | 2.0  | 6.6   |
|                                                               |                     |  | 1000 | 304.8 | 26.0 | 11.8 |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 50   | 2.5  | 8.2   |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 150  | 4.0  | 13.3  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 220  | 4.9  | 16.1  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 450  | 7.1  | 23.4  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 900  | 10.3 | 33.8  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1500 | 13.7 | 44.8  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1800 | 15.2 | 49.7  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2000 | 16.1 | 52.8  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2500 | 18.3 | 60.1  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 3000 | 20.5 | 67.3  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 4500 | 26.5 | 86.8  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 5800 | 31.2 | 102.4 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 6000 | 32.0 | 105.0 |

Mates with standard RG-58 connectors.\*  
Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      |      |      |       |
|------------------------------------------------------|---------------------|--------------------------------|------|-------|------|------|---------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------|------|------|----|-----|------|------|------|------|-------|
| RF195<br>80°C                                        | 7806R<br><b>new</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 16.0 | 7.3  | 19 AWG<br>(solid)<br>.037"<br>BC<br>7.6 $\Omega$ /M'<br>24.9 $\Omega$ /km | .110 | 2.79 | Duofoil<br>+ 90% TC<br>Braid<br>4.2 $\Omega$ /M'<br>13.8 $\Omega$ /km | .195 | 4.95 | 50 | 77% | 24.3 | 79.7 | 30   | 2.0  | 6.6   |
|                                                      |                     |                                | 1000 | 304.8 | 29.0 | 13.2 |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 50   | 2.5  | 8.2   |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 150  | 4.0  | 13.3  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 220  | 4.9  | 16.1  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 450  | 7.1  | 23.4  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 900  | 10.3 | 33.8  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1500 | 13.7 | 44.8  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1800 | 15.2 | 49.7  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2000 | 16.1 | 52.8  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2500 | 18.3 | 60.1  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 3000 | 20.5 | 67.3  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 4500 | 26.5 | 86.8  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 5800 | 31.2 | 102.4 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 6000 | 32.0 | 105.0 |

Mates with standard RG-58 connectors.\*

### RG-58 Type • 17 AWG Solid .044" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------|---------------------|--|------|-------|------|------|---------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF200<br>80°C                                                 | 7807A<br><b>new</b> |  | 500  | 152.4 | 15.0 | 6.8  | 17 AWG<br>(solid)<br>.044"<br>BC<br>3.3 $\Omega$ /M'<br>10.9 $\Omega$ /km | .116 | 2.95 | Duofoil<br>+ 95% TC<br>Braid<br>4.2 $\Omega$ /M'<br>13.8 $\Omega$ /km | .195 | 4.95 | 50 | 85% | 23.5 | 77.1 | 30   | 1.6  | 5.4  |
|                                                               |                     |  | 1000 | 304.8 | 27.0 | 12.3 |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 50   | 2.1  | 7.0  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 150  | 3.7  | 12.1 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 220  | 4.5  | 14.6 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 450  | 6.5  | 21.2 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 900  | 9.2  | 30.1 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1500 | 12.0 | 39.2 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1800 | 13.2 | 43.2 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2000 | 14.0 | 45.8 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2500 | 15.7 | 51.6 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 3000 | 17.5 | 57.3 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 4500 | 22.0 | 72.3 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 5800 | 25.2 | 82.7 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 6000 | 26.0 | 85.1 |

Mates with standard Land Mobile Radio type connectors.  
Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------|---------------------|--------------------------------|------|-------|------|------|---------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF200<br>80°C                                        | 7807R<br><b>new</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 15.5 | 7.0  | 17 AWG<br>(solid)<br>.044"<br>BC<br>3.3 $\Omega$ /M'<br>10.9 $\Omega$ /km | .116 | 2.95 | Duofoil<br>+ 95% TC<br>Braid<br>4.2 $\Omega$ /M'<br>13.8 $\Omega$ /km | .195 | 4.95 | 50 | 85% | 23.5 | 77.1 | 30   | 1.6  | 5.4  |
|                                                      |                     |                                | 1000 | 304.8 | 29.0 | 13.2 |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 50   | 2.1  | 7.0  |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 150  | 3.7  | 12.1 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 220  | 4.5  | 14.6 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 450  | 6.5  | 21.2 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 900  | 9.2  | 30.1 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1500 | 12.0 | 39.2 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 1800 | 13.2 | 43.2 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2000 | 14.0 | 45.8 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 2500 | 15.7 | 51.6 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 3000 | 17.5 | 57.3 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 4500 | 22.0 | 72.3 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 5800 | 25.2 | 82.7 |
|                                                      |                     |                                |      |       |      |      |                                                                           |      |      |                                                                       |      |      |    |     |      |      | 6000 | 26.0 | 85.1 |

Mates with standard Land Mobile Radio type connectors.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

\*Please consult Belden's website, [www.belden.com](http://www.belden.com), for complete listing.



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1-800-527-0010

# Low Loss 50 Ohm Wireless RF Transmission Cable

## RG-8X Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### RG-8X Type • 15 AWG Solid .057" Bare Copper • Duobond® II + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------|---------------------|--|------|-------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF240<br>80°C                                                 | 7808A<br><b>new</b> |  | 500  | 152.4 | 20.0 | 9.1  | 15 AWG<br>(solid)<br>.057"<br>BC<br>3.2Ω/M'<br>10.5Ω/km | .150 | 3.81 | Duobond II<br>+ 95% TC<br>Braid<br>3.5Ω/M'<br>11.5Ω/km | .240 | 6.10 | 50 | 86% | 23.0 | 75.5 | 30   | 1.3  | 4.1  |
|                                                               |                     |  | 1000 | 304.8 | 39.0 | 17.7 |                                                         |      |      |                                                        |      |      |    |     |      |      | 50   | 1.6  | 5.3  |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 150  | 2.8  | 9.3  |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 220  | 3.4  | 11.1 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 450  | 4.9  | 16.1 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 900  | 7.0  | 22.9 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 1500 | 9.1  | 30.0 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 1800 | 10.1 | 33.2 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 2000 | 10.7 | 35.0 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 2500 | 12.0 | 39.5 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 3000 | 13.4 | 43.9 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 4500 | 16.7 | 54.7 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 5800 | 19.5 | 64.0 |
|                                                               |                     |  |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 6000 | 19.8 | 65.0 |

Mates with standard RG-8X connectors.\*

Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------|---------------------|--------------------------------|------|-------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF240<br>80°C                                        | 7808R<br><b>new</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 22.0 | 10.0 | 15 AWG<br>(solid)<br>.057"<br>BC<br>3.2Ω/M'<br>10.5Ω/km | .150 | 3.81 | Duobond II<br>+ 95% TC<br>Braid<br>3.5Ω/M'<br>11.5Ω/km | .240 | 6.10 | 50 | 86% | 23.0 | 75.5 | 30   | 1.3  | 4.1  |
|                                                      |                     |                                | 1000 | 304.8 | 44.0 | 20.0 |                                                         |      |      |                                                        |      |      |    |     |      |      | 50   | 1.6  | 5.3  |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 150  | 2.8  | 9.3  |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 220  | 3.4  | 11.1 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 450  | 4.9  | 16.1 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 900  | 7.0  | 22.9 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 1500 | 9.1  | 30.0 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 1800 | 10.1 | 33.2 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 2000 | 10.7 | 35.0 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 2500 | 12.0 | 39.5 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 3000 | 13.4 | 43.9 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 4500 | 16.7 | 54.7 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 5800 | 19.5 | 64.0 |
|                                                      |                     |                                |      |       |      |      |                                                         |      |      |                                                        |      |      |    |     |      |      | 6000 | 19.8 | 65.0 |

Mates with standard RG-8X connectors.\*

| Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------------------------------|----------------------|--|------|-------|------|------|---------------------------------------------------------|------|------|------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF240<br>80°C                                                                         | 7808WB<br><b>new</b> |  | 500  | 152.4 | 20.0 | 9.1  | 15 AWG<br>(solid)<br>.057"<br>BC<br>7.6Ω/M'<br>24.9Ω/km | .150 | 3.81 | Duobond II<br>95% TC<br>Braid<br>4.2Ω/M'<br>13.8Ω/km | .240 | 6.10 | 50 | 86% | 23.0 | 75.5 | 30   | 1.3  | 4.1  |
|                                                                                       |                      |  | 1000 | 304.8 | 39.0 | 17.7 |                                                         |      |      |                                                      |      |      |    |     |      |      | 50   | 1.6  | 5.3  |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 150  | 2.8  | 9.3  |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 220  | 3.4  | 11.1 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 450  | 4.9  | 16.1 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 900  | 7.0  | 22.9 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 1500 | 9.1  | 30.0 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 1800 | 10.1 | 33.2 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 2000 | 10.7 | 35.0 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 2500 | 12.0 | 39.5 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 3000 | 13.4 | 43.9 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 4500 | 16.7 | 54.7 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 5800 | 19.5 | 64.0 |
|                                                                                       |                      |  |      |       |      |      |                                                         |      |      |                                                      |      |      |    |     |      |      | 6000 | 19.8 | 65.0 |

Mates with standard RG-8X connectors.\*

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

\*Please consult Belden's website, [www.belden.com](http://www.belden.com), for complete listing.

# Low Loss 50 Ohm Wireless RF Transmission Cable

## Intermediate Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### Intermediate Type • 13 AWG Solid .072" Bare Copper • Duobond® II + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------|---------------------|--|------|-------|------|------|--------------------------------------------------------|------|------|-------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF300<br>80°C                                                 | 7809A<br><b>new</b> |  | 500  | 152.4 | 30.5 | 13.9 | 13 AWG<br>(solid)<br>.072"<br>BC<br>2.0Ω/M'<br>6.6Ω/km | .190 | 4.83 | Duobond II<br>+ 95% TC<br>Braid<br>2.7Ω/M'<br>8.8Ω/km | .300 | 7.62 | 50 | 86% | 23.0 | 75.5 | 30   | 1.0  | 3.4  |
|                                                               |                     |  | 1000 | 304.8 | 59.0 | 26.8 |                                                        |      |      |                                                       |      |      |    |     |      |      | 50   | 1.3  | 4.2  |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 150  | 2.2  | 7.3  |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 220  | 2.7  | 8.9  |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 450  | 3.9  | 12.9 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 900  | 5.6  | 18.3 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 1500 | 7.3  | 24.0 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 1800 | 8.1  | 26.5 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 2000 | 8.6  | 28.2 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 2500 | 9.7  | 31.9 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 3000 | 10.8 | 35.4 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 4500 | 13.5 | 44.4 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 5800 | 15.8 | 51.8 |
|                                                               |                     |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 6000 | 16.0 | 52.6 |

Mates with Land Mobile Radio type connectors.  
Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------|---------------------|--------------------------------|------|-------|------|------|--------------------------------------------------------|------|------|-------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF300<br>80°C                                        | 7809R<br><b>new</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 34.0 | 15.5 | 13 AWG<br>(solid)<br>.072"<br>BC<br>2.0Ω/M'<br>6.6Ω/km | .190 | 4.83 | Duobond II<br>+ 95% TC<br>Braid<br>2.7Ω/M'<br>8.8Ω/km | .300 | 7.62 | 50 | 86% | 23.0 | 75.5 | 30   | 1.0  | 3.4  |
|                                                      |                     |                                | 1000 | 304.8 | 65.0 | 29.5 |                                                        |      |      |                                                       |      |      |    |     |      |      | 50   | 1.3  | 4.2  |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 150  | 2.2  | 7.3  |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 220  | 2.7  | 8.9  |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 450  | 3.9  | 12.9 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 900  | 5.6  | 18.3 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 1500 | 7.3  | 24.0 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 1800 | 8.1  | 26.5 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 2000 | 8.6  | 28.2 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 2500 | 9.7  | 31.9 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 3000 | 10.8 | 35.4 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 4500 | 13.5 | 44.4 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 5800 | 15.8 | 51.8 |
|                                                      |                     |                                |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 6000 | 16.0 | 52.6 |

Mates with Land Mobile Radio type connectors.\*

| Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------------------------------|----------------------|--|------|-------|------|------|--------------------------------------------------------|------|------|-------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| RF300<br>80°C                                                                         | 7809WB<br><b>new</b> |  | 500  | 152.4 | 30.5 | 13.9 | 13 AWG<br>(solid)<br>.072"<br>BC<br>2.0Ω/M'<br>6.6Ω/km | .190 | 4.83 | Duobond II<br>+ 95% TC<br>Braid<br>2.7Ω/M'<br>8.8Ω/km | .300 | 7.62 | 50 | 86% | 23.0 | 75.5 | 30   | 1.0  | 3.4  |
|                                                                                       |                      |  | 1000 | 304.8 | 59.0 | 26.8 |                                                        |      |      |                                                       |      |      |    |     |      |      | 50   | 1.3  | 4.2  |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 150  | 2.2  | 7.3  |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 220  | 2.7  | 8.9  |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 450  | 3.9  | 12.9 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 900  | 5.6  | 18.3 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 1500 | 7.3  | 24.0 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 1800 | 8.1  | 26.5 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 2000 | 8.6  | 28.2 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 2500 | 9.7  | 31.9 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 3000 | 10.8 | 35.4 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 4500 | 13.5 | 44.4 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 5800 | 15.8 | 51.8 |
|                                                                                       |                      |  |      |       |      |      |                                                        |      |      |                                                       |      |      |    |     |      |      | 6000 | 16.0 | 52.6 |

Mates with Land Mobile Radio type connectors.\*  
Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

\*Please consult Belden's website, [www.belden.com](http://www.belden.com), for complete listing.



By:



INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

# Low Loss 50 Ohm Wireless RF Transmission Cable

## RG-8 Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>( $\Omega$ ) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                           |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**RG-8 Type • 10 AWG Solid .108" Bare Copper-covered Aluminum • Duobond® II + 95% Tinned Copper Braid Shield**

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      |      |      |      |
|---------------------------------------------------------------|---------------------|--|------|-------|------|------|---------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| RF400<br>80°C                                                 | 7810A<br><b>new</b> |  | 500  | 152.4 | 42.5 | 19.3 | 10 AWG<br>(solid)<br>.108"<br>CCA<br>1.3 $\Omega$ /M'<br>4.4 $\Omega$ /km | .285 | 7.24 | Duobond II<br>+ 95% TC<br>Braid<br>1.8 $\Omega$ /M'<br>5.8 $\Omega$ /km | .405 | 10.29 | 50 | 86% | 23.0 | 75.5 | 30   | .7   | 2.1  |
|                                                               |                     |  | 1000 | 304.8 | 86.0 | 39.1 |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 50   | .9   | 2.8  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 150  | 1.5  | 4.9  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 220  | 1.8  | 6.0  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 450  | 2.7  | 8.8  |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 900  | 3.8  | 12.6 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 1500 | 5.1  | 16.6 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 1800 | 5.6  | 18.5 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 2000 | 6.0  | 19.6 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 2500 | 6.7  | 22.0 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 3000 | 7.5  | 24.4 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 4500 | 9.5  | 31.1 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 5800 | 11.1 | 36.4 |
|                                                               |                     |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 6000 | 11.4 | 37.3 |

Mates with 9913 and Land Mobile Radio type connectors.\*  
Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      |      |      |      |
|------------------------------------------------------|----------------------|---------|------|-------|------|------|---------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| RF400<br>80°C                                        | 7810R*<br><b>new</b> | NEC:    | 500  | 152.4 | 48.5 | 22.0 | 10 AWG<br>(solid)<br>.108"<br>CCA<br>1.3 $\Omega$ /M'<br>4.4 $\Omega$ /km | .285 | 7.24 | Duobond II<br>+ 95% TC<br>Braid<br>1.8 $\Omega$ /M'<br>5.8 $\Omega$ /km | .405 | 10.29 | 50 | 86% | 23.0 | 75.5 | 30   | .7   | 2.1  |
|                                                      |                      | CMR     | 1000 | 304.8 | 98.0 | 44.5 |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 50   | .9   | 2.8  |
|                                                      |                      | CEC:    |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 150  | 1.5  | 4.9  |
|                                                      |                      | CMG FT4 |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 220  | 1.8  | 6.0  |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 450  | 2.7  | 8.8  |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 900  | 3.8  | 12.6 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 1500 | 5.1  | 16.6 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 1800 | 5.6  | 18.5 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 2000 | 6.0  | 19.6 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 2500 | 6.7  | 22.0 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 3000 | 7.5  | 24.4 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 4500 | 9.5  | 31.1 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 5800 | 11.1 | 36.4 |
|                                                      |                      |         |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 6000 | 11.4 | 37.3 |

Mates with 9913 and Land Mobile Radio type connectors.\*

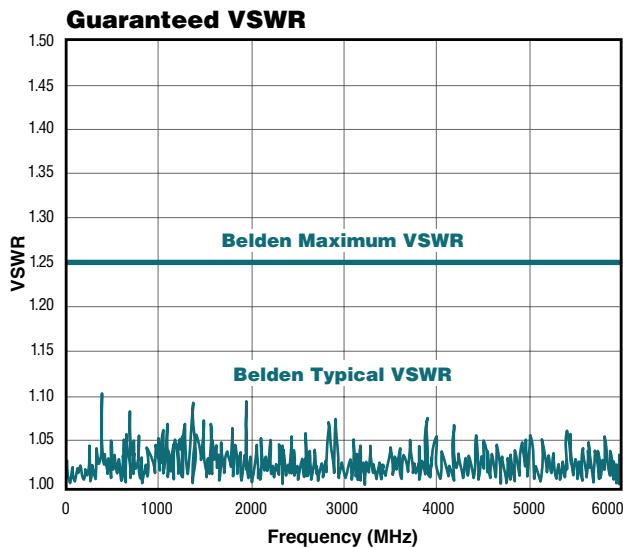
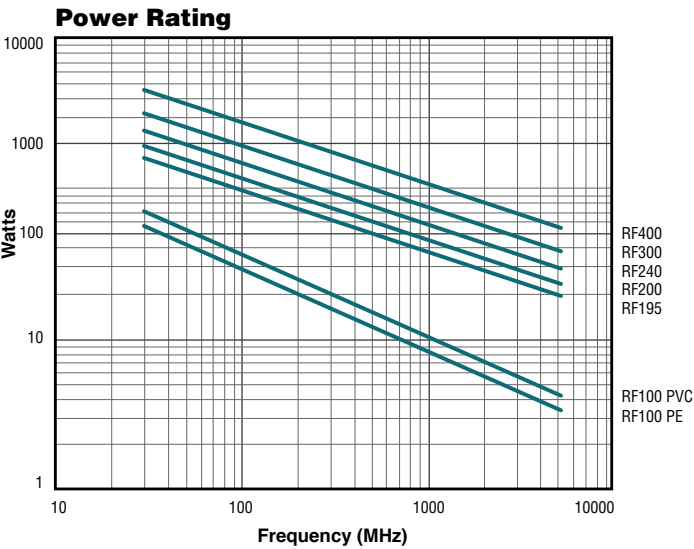
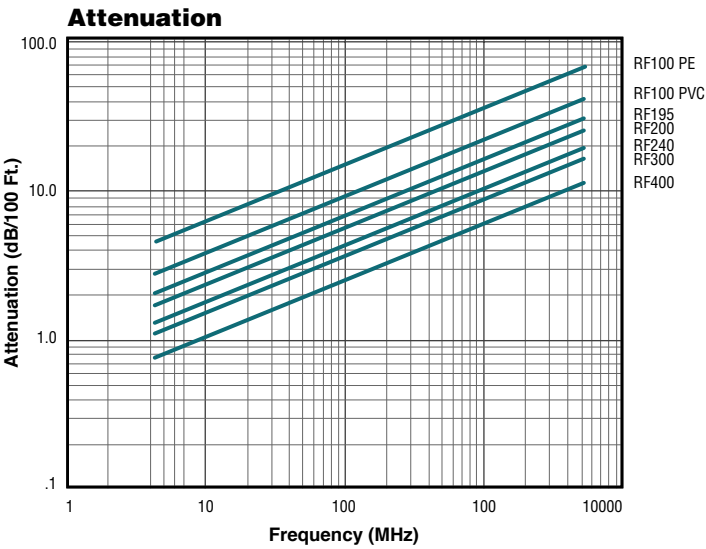
| Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      |      |      |      |
|---------------------------------------------------------------------------------------|----------------------|--|------|-------|------|------|---------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| RF400<br>80°C                                                                         | 7810WB<br><b>new</b> |  | 500  | 152.4 | 42.5 | 19.3 | 10 AWG<br>(solid)<br>.108"<br>CCA<br>1.3 $\Omega$ /M'<br>4.4 $\Omega$ /km | .285 | 7.24 | Duobond II<br>+ 95% TC<br>Braid<br>1.8 $\Omega$ /M'<br>5.8 $\Omega$ /km | .405 | 10.29 | 50 | 86% | 23.0 | 75.5 | 30   | .7   | 2.1  |
|                                                                                       |                      |  | 1000 | 304.8 | 86.0 | 39.1 |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 50   | .9   | 2.8  |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 150  | 1.5  | 4.9  |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 220  | 1.8  | 6.0  |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 450  | 2.7  | 8.8  |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 900  | 3.8  | 12.6 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 1500 | 5.1  | 16.6 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 1800 | 5.6  | 18.5 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 2000 | 6.0  | 19.6 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 2500 | 6.7  | 22.0 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 3000 | 7.5  | 24.4 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 4500 | 9.5  | 31.1 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 5800 | 11.1 | 36.4 |
|                                                                                       |                      |  |      |       |      |      |                                                                           |      |      |                                                                         |      |       |    |     |      |      | 6000 | 11.4 | 37.3 |

Mates with 9913 and Land Mobile Radio type connectors.\*  
Suitable for Outdoor and Direct Burial applications.

CCA = Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

\*Please consult Belden's website, [www.belden.com](http://www.belden.com), for complete listing.

Low Loss 50 Ohm  
Wireless RF Transmission Coax  
Electrical Characteristics



Voltage Standing Wave Ratio is a measurement of the reflected power in a cable or instrument. The higher the VSWR the poorer the transmission characteristics of the cable.

Phase Stability

| Phase Attribute                            | Typical Range (0.45 GHz to 6.0 GHz) |              |
|--------------------------------------------|-------------------------------------|--------------|
|                                            | ppm/°C                              | Degree/GHz/m |
| Temperature (-40°C to +85°C) <sup>1</sup>  | ±9                                  | ±0.6         |
| Bending & Flexing (25 cycles) <sup>2</sup> | NA                                  | ±1.1         |

1: Per IEC 60966-1 clause 8.8  
2: Per IEC 60966-1 clause 8.6

RG Cable Replacement Guide

| Part Number | Size    | Replacing |
|-------------|---------|-----------|
| 7805        | RF100A  | RG-174/U  |
| 7805R       | RF100LL | RG-174/U  |
| 7806A       | RF195   | RG-58/U   |
| 7807A       | RF200   | RG-58/U   |
| 7808A       | RF240   | RG-8X     |
| 7809A       | RF300   | RG-8X     |
| 7810A       | RF400   | RG-8U     |



## 50 Ohm Transmission and Computer Cable

RG-188A/U, RG-174/U and RG-58/U Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**RG-174/U Type • 26 AWG** Stranded (7x34) .019" Bare Copper-covered Steel • 90% Tinned Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket |      |        |       |     |     |          |      |      |            |      |      |    |     |      |       |     |      |      |       |
|--------------------------------------------|------|--------|-------|-----|-----|----------|------|------|------------|------|------|----|-----|------|-------|-----|------|------|-------|
| UL AWM                                     | 8216 | 100    | 30.5  | 1.0 | .5  | 26 AWG   | .060 | 1.52 | TC Braid   | .110 | 2.79 | 50 | 66% | 30.8 | 101.0 | 1   | 1.9  | 6.2  |       |
| Style 1354                                 |      | 500    | 152.4 | 5.5 | 2.5 | (7x34)   |      |      | 90% Shield |      |      |    |     |      |       | 10  | 3.3  | 10.8 |       |
| (30V 60°C)                                 |      | 1000†† | 304.8 | 9.0 | 4.1 | .019"    |      |      | Coverage   |      |      |    |     |      |       | 50  | 5.8  | 19.0 |       |
|                                            |      |        |       |     |     | BCCS     |      |      | 10.7Ω/M'   |      |      |    |     |      |       | 100 | 8.4  | 27.6 |       |
|                                            |      |        |       |     |     | 97.0Ω/M' |      |      | 35.1Ω/km   |      |      |    |     |      |       | 200 | 12.5 | 41.0 |       |
|                                            |      |        |       |     |     |          |      |      |            |      |      |    |     |      |       |     | 400  | 19.0 | 62.3  |
|                                            |      |        |       |     |     |          |      |      |            |      |      |    |     |      |       |     | 700  | 27.0 | 88.6  |
|                                            |      |        |       |     |     |          |      |      |            |      |      |    |     |      |       |     | 900  | 31.0 | 101.7 |
|                                            |      |        |       |     |     |          |      |      |            |      |      |    |     |      |       |     | 1000 | 34.0 | 111.5 |



**RG-188A/U Type • 26 AWG** Stranded (7x34) .007" Silver-coated Copper-covered Steel • 96% Silver-coated Copper Braid Shield

| TFE Teflon® Insulation • White TFE Tape Jacket                                    |       |       |       |      |           |          |      |      |            |       |      |    |       |      |      |      |      |      |  |
|-----------------------------------------------------------------------------------|-------|-------|-------|------|-----------|----------|------|------|------------|-------|------|----|-------|------|------|------|------|------|--|
| 200°C                                                                             | 83269 | 100†  | 30.5  | 2.8  | 1.3       | 26 AWG   | .058 | 1.47 | SCC Braid  | .098  | 2.49 | 50 | 69.5% | 29.0 | 95.1 | 1    | 1.2  | 3.9  |  |
| VW-1                                                                              |       | 500†  | 152.4 | 7.0  | 3.2       | (7x34)   |      |      | 96% Shield | ±.004 | ±.10 |    |       |      |      | 10   | 2.7  | 8.9  |  |
|                                                                                   |       | 1000† | 304.8 | 12.0 | 5.5       | .007"    |      |      | Coverage   |       |      |    |       |      |      | 50   | 5.6  | 18.4 |  |
|                                                                                   |       |       |       |      |           | SCCCS    |      |      | 8.5Ω/M'    |       |      |    |       |      |      | 100  | 8.3  | 27.2 |  |
|                                                                                   |       |       |       |      |           | 91.2Ω/M' |      |      | 27.9Ω/km   |       |      |    |       |      |      | 200  | 12.0 | 39.4 |  |
|                                                                                   |       |       |       |      | 299.2Ω/km |          |      |      |            |       |      |    |       |      | 400  | 17.5 | 57.4 |      |  |
|                                                                                   |       |       |       |      |           |          |      |      |            |       |      |    |       |      | 700  | 23.7 | 77.8 |      |  |
|                                                                                   |       |       |       |      |           |          |      |      |            |       |      |    |       |      | 900  | 27.3 | 89.6 |      |  |
|                                                                                   |       |       |       |      |           |          |      |      |            |       |      |    |       |      | 1000 | 29.0 | 95.1 |      |  |
|  |       |       |       |      |           |          |      |      |            |       |      |    |       |      |      |      |      |      |  |
| MIL-C-17D                                                                         |       |       |       |      |           |          |      |      |            |       |      |    |       |      |      |      |      |      |  |

MIL-C-17D

**RG-58/U Type • 20 AWG** Solid .033" Bare Copper • 78% Bare Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket                                          |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      |      |      |      |  |
|-------------------------------------------------------------------------------------|------|--------|---------|------|------|----------|------|------|------------|------|------|------|-----|------|------|------|------|------|--|
| 75°C                                                                                | 9201 | U-500  | U-152.4 | 13.0 | 5.9  | 20 AWG   | .116 | 2.95 | BC Braid   | .193 | 4.90 | 51.5 | 66% | 28.5 | 93.5 | 1    | .3   | 1.1  |  |
|  |      | 500    | 152.4   | 15.5 | 7.0  | (solid)  |      |      | 78% Shield |      |      |      |     |      |      | 10   | 1.1  | 3.6  |  |
|                                                                                     |      | U-1000 | U-304.8 | 26.0 | 11.8 | .033"    |      |      | Coverage   |      |      |      |     |      |      | 50   | 2.5  | 8.2  |  |
|                                                                                     |      | 1000   | 304.8   | 25.0 | 11.4 | BC       |      |      | 5.5Ω/M'    |      |      |      |     |      |      | 100  | 3.8  | 12.5 |  |
|                                                                                     |      |        |         |      |      | 10.0Ω/M' |      |      | 18.0Ω/km   |      |      |      |     |      |      | 200  | 5.6  | 18.4 |  |
|                                                                                     |      |        |         |      |      | 33.1Ω/km |      |      |            |      |      |      |     |      |      | 400  | 8.4  | 27.6 |  |
|                                                                                     |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      | 700  | 11.7 | 38.4 |  |
|                                                                                     |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      | 900  | 13.7 | 44.9 |  |
|                                                                                     |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      | 1000 | 14.5 | 47.6 |  |



**RG-58/U Type • 20 AWG** Solid .033" Bare Copper • Duobond® II + 55% Tinned Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket                                          |       |        |         |      |          |         |      |          |            |      |      |    |     |      |       |      |      |      |      |
|-------------------------------------------------------------------------------------|-------|--------|---------|------|----------|---------|------|----------|------------|------|------|----|-----|------|-------|------|------|------|------|
| UL AWM                                                                              | 9310* | 500    | 152.4   | 14.0 | 6.4      | 20 AWG  | .114 | 2.90     | Duobond II | .193 | 4.90 | 50 | 66% | 30.8 | 101.0 | 1    | .5   | 1.5  |      |
| Style 1354                                                                          |       | U-1000 | U-304.8 | 23.0 | 10.5     | (solid) |      |          | + 55%      |      |      |    |     |      |       | 10   | 1.4  | 4.6  |      |
| (30V 60°C)                                                                          |       | 1000   | 304.8   | 23.0 | 10.5     | .033"   |      |          | TC Braid   |      |      |    |     |      |       |      | 50   | 2.8  | 9.2  |
|                                                                                     |       |        |         |      |          | BC      |      |          | 14.0Ω/M'   |      |      |    |     |      |       |      | 100  | 3.8  | 12.5 |
|  |       |        |         |      | 10.0Ω/M' |         |      | 45.9Ω/km |            |      |      |    |     |      |       | 200  | 5.4  | 17.7 |      |
|                                                                                     |       |        |         |      | 33.1Ω/km |         |      |          |            |      |      |    |     |      |       | 400  | 7.9  | 25.9 |      |
|                                                                                     |       |        |         |      |          |         |      |          |            |      |      |    |     |      |       | 700  | 11.1 | 36.4 |      |
|                                                                                     |       |        |         |      |          |         |      |          |            |      |      |    |     |      |       | 900  | 12.8 | 42.0 |      |
|                                                                                     |       |        |         |      |          |         |      |          |            |      |      |    |     |      |       | 1000 | 13.9 | 45.6 |      |

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • SCC = Silver-coated Copper • SCCC = Silver-coated Copper-covered Steel • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

\*See Belden's website, [www.belden.com](http://www.belden.com), for connector information.

† Spools may contain more than one piece. Length may vary ±10% from length shown.

†† Multi-piece spool (max. 3 pieces, min. length 100'). Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

# 50 Ohm Transmission and Computer Cable

## RG-58A/U Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### RG-58A/U Type • 20 AWG Stranded (19x32) .037" Tinned Copper • 96% Tinned Copper Braid Shield

| Foam Polyethylene Insulation • Black or White PVC Jacket                          |      |      |         |         |      |      |          |      |      |            |      |      |      |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------|------|------|---------|---------|------|------|----------|------|------|------------|------|------|------|-----|------|------|------|------|------|
| UL AWM                                                                            | 8219 | NEC: | U-500▲  | U-152.4 | 14.0 | 6.4  | 20 AWG   | .114 | 2.90 | TC Braid   | .194 | 4.93 | 53.5 | 73% | 26.5 | 86.9 | 1    | .4   | 1.2  |
| Style 1354                                                                        |      | CM   | 500     | 152.4   | 16.0 | 7.3  | (19x32)  |      |      | 96% Shield |      |      |      |     |      |      | 10   | 1.3  | 4.3  |
| (30V 80°C)                                                                        |      | CEC: | U-1000▲ | U-304.8 | 27.0 | 12.3 | .037"    |      |      | Coverage   |      |      |      |     |      |      | 50   | 3.1  | 10.2 |
|                                                                                   |      | CM   | 1000    | 304.8   | 27.0 | 12.3 | TC       |      |      | 4.1Ω/M'    |      |      |      |     |      |      | 100  | 4.5  | 14.8 |
|                                                                                   |      |      |         |         |      |      | 8.8Ω/M'  |      |      | 13.4Ω/km   |      |      |      |     |      |      | 200  | 6.6  | 21.7 |
|                                                                                   |      |      |         |         |      |      | 28.9Ω/km |      |      |            |      |      |      |     |      |      | 400  | 10.0 | 32.8 |
|                                                                                   |      |      |         |         |      |      |          |      |      |            |      |      |      |     |      |      | 700  | 14.2 | 46.6 |
|                                                                                   |      |      |         |         |      |      |          |      |      |            |      |      |      |     |      |      | 900  | 16.6 | 54.5 |
|                                                                                   |      |      |         |         |      |      |          |      |      |            |      |      |      |     |      |      | 1000 | 18.1 | 59.4 |
|  |      |      |         |         |      |      |          |      |      |            |      |      |      |     |      |      |      |      |      |
| P-MSHA • SC-182/5*                                                                |      |      |         |         |      |      |          |      |      |            |      |      |      |     |      |      |      |      |      |
| ▲U-500 ft. and U-1000 ft. put-ups available in White only.                        |      |      |         |         |      |      |          |      |      |            |      |      |      |     |      |      |      |      |      |

P-MSHA • SC-182/5\*

\*U-500 ft. and U-1000 ft. put-ups available in White only.

### RG-58A/U Type • 20 AWG Stranded (19x32) .037" Tinned Copper • Duobond® II + 55% Tinned Copper Braid Shield

| Foam Polyethylene Insulation • Black PVC Jacket                                  |        |      |        |         |      |          |         |      |      |            |      |      |    |     |      |      |      |      |      |
|----------------------------------------------------------------------------------|--------|------|--------|---------|------|----------|---------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                                                           | 9311** | NEC: | 500    | 152.4   | 14.5 | 6.6      | 20 AWG  | .114 | 2.90 | Duobond II | .193 | 4.90 | 52 | 75% | 26.0 | 85.3 | 1    | .5   | 1.6  |
| Style 1354                                                                       |        | CM   | U-1000 | U-304.8 | 23.0 | 10.5     | (19x32) |      |      | + 55% TC   |      |      |    |     |      |      | 10   | 1.5  | 4.9  |
| (30V 80°C)                                                                       |        | CEC: | 1000   | 304.8   | 23.0 | 10.5     | .037"   |      |      | Braid      |      |      |    |     |      |      | 50   | 2.9  | 9.5  |
|                                                                                  |        | CM   |        |         |      |          | TC      |      |      | 17.0Ω/M'   |      |      |    |     |      |      | 100  | 4.0  | 13.1 |
|                                                                                  |        |      |        |         |      |          | 8.8Ω/M' |      |      | 55.8Ω/km   |      |      |    |     |      |      | 200  | 5.7  | 18.7 |
|  |        |      |        |         |      | 28.9Ω/km |         |      |      |            |      |      |    |     |      | 400  | 8.5  | 27.9 |      |
|                                                                                  |        |      |        |         |      |          |         |      |      |            |      |      |    |     |      | 700  | 12.2 | 40.0 |      |
|                                                                                  |        |      |        |         |      |          |         |      |      |            |      |      |    |     |      | 900  | 14.5 | 47.6 |      |
|                                                                                  |        |      |        |         |      |          |         |      |      |            |      |      |    |     |      | 1000 | 15.8 | 51.8 |      |

### RG-58A/U Type • 20 AWG Stranded (19x33) .035" Tinned Copper • 95% Tinned Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket                                         |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |       |      |      |      |
|------------------------------------------------------------------------------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|-------|------|------|------|
|  | 75°C | 8259 | 100    | 30.5    | 3.5  | 1.6  | 20 AWG   | .116 | 2.95 | TC Braid   | .192 | 4.88 | 50 | 66% | 30.8 | 101.0 | 1    | .4   | 1.4  |
|                                                                                    |      |      | U-500  | U-152.4 | 13.5 | 6.1  | (19x33)  |      |      | 95% Shield |      |      |    |     |      |       | 10   | 1.5  | 4.9  |
|                                                                                    |      |      | 500    | 152.4   | 16.0 | 7.3  | .035"    |      |      | Coverage   |      |      |    |     |      |       | 50   | 3.7  | 12.1 |
|                                                                                    |      |      | U-1000 | U-304.8 | 27.0 | 12.3 | TC       |      |      | 4.1Ω/M'    |      |      |    |     |      |       | 100  | 5.4  | 17.7 |
|                                                                                    |      |      | 1000   | 304.8   | 27.0 | 12.3 | 10.8Ω/M' |      |      | 13.4Ω/km   |      |      |    |     |      |       | 200  | 8.1  | 26.6 |
|                                                                                    |      |      |        |         |      |      | 35.4Ω/km |      |      |            |      |      |    |     |      |       | 400  | 12.4 | 40.7 |
|                                                                                    |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |       | 700  | 17.7 | 58.1 |
|                                                                                    |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |       | 900  | 21.1 | 69.2 |
|                                                                                    |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |       | 1000 | 22.8 | 74.8 |

### RG-58A/U Type • 20 AWG Solid .032" Bare Copper • 95% Tinned Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket |             |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      |      |      |      |
|--------------------------------------------|-------------|------|--------|---------|------|------|----------|------|------|------------|------|------|------|-----|------|------|------|------|------|
| UL AWM<br>Style 1354<br>(30V 80°C)         | <b>8240</b> | NEC: | 100    | 30.5    | 3.7  | 1.7  | 20 AWG   | .116 | 2.95 | TC Braid   | .193 | 4.90 | 51.5 | 66% | 28.5 | 93.5 | 1    | .3   | 1.1  |
|                                            |             | CMX  | U-500  | U-152.4 | 14.5 | 6.6  | (solid)  |      |      | 95% Shield |      |      |      |     |      |      | 10   | 1.1  | 3.6  |
|                                            |             | CEC: | 500    | 152.4   | 16.0 | 7.3  | .033"    |      |      | Coverage   |      |      |      |     |      |      | 50   | 2.5  | 8.2  |
|                                            |             | CMX  | U-1000 | U-304.8 | 28.0 | 12.7 | BC       |      |      | 4.1Ω/M'    |      |      |      |     |      |      | 100  | 3.8  | 12.5 |
|                                            |             |      | 1000   | 304.8   | 28.0 | 12.7 | 10.0Ω/M' |      |      | 13.4Ω/km   |      |      |      |     |      |      | 200  | 5.6  | 18.4 |
|                                            |             |      |        |         |      |      | 32.8Ω/km |      |      |            |      |      |      |     |      |      | 400  | 8.4  | 27.6 |
|                                            |             |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      | 700  | 11.7 | 38.4 |
|                                            |             |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      | 900  | 13.7 | 44.9 |
|                                            |             |      |        |         |      |      |          |      |      |            |      |      |      |     |      |      | 1000 | 14.5 | 47.6 |

| Plenum • FEP Insulation • Black FEP Jacket |                                                                                                    |         |                   |       |      |      |          |      |      |            |      |      |      |       |      |      |      |      |      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------|---------|-------------------|-------|------|------|----------|------|------|------------|------|------|------|-------|------|------|------|------|------|
| 200°C                                      | <b>88240</b><br> | NEC:    | 500 <sup>†</sup>  | 152.4 | 14.0 | 6.4  | 20 AWG   | .107 | 2.72 | TC Braid   | .159 | 4.04 | 53.5 | 69.5% | 26.4 | 86.6 | 1    | .5   | 1.6  |
|                                            |                                                                                                    | CMP     | 1000 <sup>†</sup> | 304.8 | 26.0 | 11.8 | (solid)  |      |      | 95% Shield |      |      |      |       |      |      | 10   | 1.2  | 3.9  |
|                                            |                                                                                                    | CEC:    |                   |       |      |      | .032"    |      |      | Coverage   |      |      |      |       |      |      | 50   | 3.0  | 9.8  |
|                                            |                                                                                                    | CMP FT6 |                   |       |      |      | BC       |      |      | 6.7Ω/M'    |      |      |      |       |      |      | 100  | 4.3  | 14.2 |
|                                            |                                                                                                    |         |                   |       |      |      | 10.2Ω/M' |      |      | 22.0Ω/km   |      |      |      |       |      |      | 200  | 6.4  | 21.0 |
|                                            |                                                                                                    |         |                   |       |      |      | 33.5Ω/km |      |      |            |      |      |      |       |      |      | 400  | 9.7  | 31.7 |
|                                            |                                                                                                    |         |                   |       |      |      |          |      |      |            |      |      |      |       |      |      | 700  | 13.7 | 45.0 |
|                                            |                                                                                                    |         |                   |       |      |      |          |      |      |            |      |      |      |       |      |      | 900  | 16.1 | 52.8 |
|                                            |                                                                                                    |         |                   |       |      |      |          |      |      |            |      |      |      |       |      |      | 1000 | 17.3 | 56.6 |

| Plenum • FEP Insulation • Natural Flamarrest® Jacket                               |       |         |         |         |      |      |          |      |      |            |      |      |      |       |      |      |      |      |      |
|------------------------------------------------------------------------------------|-------|---------|---------|---------|------|------|----------|------|------|------------|------|------|------|-------|------|------|------|------|------|
| 75°C                                                                               | 82240 | NEC:    | U-500†  | U-152.4 | 12.5 | 5.7  | 20 AWG   | .107 | 2.72 | TC Braid   | .159 | 4.04 | 53.5 | 69.5% | 26.4 | 86.6 | 1    | .5   | 1.6  |
|  |       | CMP     | U-1000† | U-304.8 | 25.0 | 11.4 | (solid)  |      |      | 95% Shield |      |      |      |       |      |      | 10   | 1.2  | 3.9  |
|                                                                                    |       | CEC:    | 1000†   | 304.8   | 25.0 | 11.4 | .032"    |      |      | Coverage   |      |      |      |       |      |      | 50   | 3.0  | 9.8  |
|                                                                                    |       | CMP FT6 |         |         |      |      | BC       |      |      | 6.7Ω/M'    |      |      |      |       |      |      | 100  | 4.3  | 14.2 |
|                                                                                    |       |         |         |         |      |      | 10.2Ω/M' |      |      | 22.0Ω/km   |      |      |      |       |      |      | 200  | 6.4  | 21.0 |
|                                                                                    |       |         |         |         |      |      | 33.5Ω/km |      |      |            |      |      |      |       |      |      | 400  | 9.7  | 31.7 |
|                                                                                    |       |         |         |         |      |      |          |      |      |            |      |      |      |       |      |      | 700  | 13.7 | 45.0 |
|                                                                                    |       |         |         |         |      |      |          |      |      |            |      |      |      |       |      |      | 900  | 16.1 | 52.8 |
|                                                                                    |       |         |         |         |      |      |          |      |      |            |      |      |      |       |      |      | 1000 | 17.3 | 56.6 |

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotation of RG/U cables not listed.\*Pennsylvania Department of Environmental Resource and United States Mine Safety and Health Administration certification. \*\*See Belden's website, [www.belden.com](http://www.belden.com), for connector information.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.



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1-800-527-0010

# 50 Ohm Transmission and Computer Cable

## RG-8X and RG-8/U Type

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**RG-8X Type • 16 AWG** Stranded (19x29) .058" Bare Copper • 95% Bare Copper Braid Shield

| Foam Polyethylene Insulation • Black PVC Jacket |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                          | 9258 | NEC: | U-500  | U-152.4 | 20.0 | 9.1  | 16 AWG   | .155 | 3.94 | BC Braid   | .242 | 6.15 | 50 | 82% | 24.8 | 81.4 | 1    | .3   | .8   |
| Style 1354                                      |      | CM   | 500    | 152.4   | 20.0 | 9.1  | (19x29)  |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 2.9  |
| (30V 80°C)                                      |      | CEC: | U-1000 | U-304.8 | 40.0 | 18.2 | .058"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|                                                 |      | CM   | 1000   | 304.8   | 40.0 | 18.2 | BC       |      |      | 3.3Ω/M'    |      |      |    |     |      |      | 100  | 3.1  | 10.2 |
|                                                 |      |      |        |         |      |      | 4.3Ω/M'  |      |      | 10.8Ω/km   |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                 |      |      |        |         |      |      | 14.1Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.7 |
|                                                 |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.1  | 29.9 |
|                                                 |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.7 | 35.1 |
|                                                 |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 11.2 | 36.7 |

\*1000 ft. put-up also available in White.

**RG-8/U Type • 13 AWG** Stranded (7x21) .085" Bare Copper • 97% Bare Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket |      |         |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |      |      |
|--------------------------------------------|------|---------|------|-------|-------|------|---------|------|------|------------|------|-------|----|-----|------|------|------|------|------|
| 75°C                                       | 8237 | NEC:    | 100  | 30.5  | 13.3  | 6.0  | 13 AWG  | .285 | 7.24 | BC Braid   | .405 | 10.29 | 52 | 66% | 28.5 | 93.5 | 1    | .2   | .5   |
|                                            |      | CMH     | 500  | 152.4 | 56.5  | 25.7 | (7x21)  |      |      | 97% Shield |      |       |    |     |      |      | 10   | .6   | 1.8  |
|                                            |      | CEC:    | 1000 | 304.8 | 112.0 | 50.9 | .085"   |      |      | Coverage   |      |       |    |     |      |      | 50   | 1.3  | 4.3  |
|                                            |      | CMH FT1 |      |       |       |      | BC      |      |      | 1.2Ω/M'    |      |       |    |     |      |      | 100  | 1.9  | 6.2  |
|                                            |      |         |      |       |       |      | 1.9Ω/M' |      |      | 3.9Ω/km    |      |       |    |     |      |      | 200  | 2.8  | 9.2  |
|                                            |      |         |      |       |       |      | 6.2Ω/km |      |      |            |      |       |    |     |      |      | 400  | 4.2  | 13.8 |
|                                            |      |         |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 700  | 5.9  | 19.4 |
|                                            |      |         |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 900  | 6.9  | 22.6 |
|                                            |      |         |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 1000 | 7.4  | 24.3 |
|                                            |      |         |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 4000 | 23.2 | 76.1 |

JAN-C-17A

| Polyethylene Insulation • Black Non-contaminating PVC Jacket |      |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |      |      |
|--------------------------------------------------------------|------|------|------|-------|-------|------|---------|------|------|------------|------|-------|----|-----|------|------|------|------|------|
| UL AWM                                                       | 9251 | NEC: | 500  | 152.4 | 58.0  | 26.4 | 13 AWG  | .285 | 7.24 | BC Braid   | .405 | 10.29 | 52 | 66% | 28.5 | 93.5 | 1    | .2   | .5   |
| Style 1354                                                   |      | CMX  | 1000 | 304.8 | 115.0 | 52.3 | (7x21)  |      |      | 97% Shield |      |       |    |     |      |      | 10   | .6   | 1.8  |
| (30V 60°C)                                                   |      | CEC: |      |       |       |      | .085"   |      |      | Coverage   |      |       |    |     |      |      | 50   | 1.3  | 4.3  |
|                                                              |      | CMX  |      |       |       |      | BC      |      |      | 1.2Ω/M'    |      |       |    |     |      |      | 100  | 1.9  | 6.2  |
|                                                              |      |      |      |       |       |      | 1.9Ω/M' |      |      | 3.9Ω/km    |      |       |    |     |      |      | 200  | 2.8  | 9.2  |
|                                                              |      |      |      |       |       |      | 6.2Ω/km |      |      |            |      |       |    |     |      |      | 400  | 4.2  | 13.8 |
|                                                              |      |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 700  | 5.9  | 19.4 |
|                                                              |      |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 900  | 6.9  | 22.6 |
|                                                              |      |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 1000 | 7.4  | 24.3 |
|                                                              |      |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 4000 | 23.2 | 76.1 |

MIL-C-17D

**RG-8/U Type • 11 AWG** Stranded (7x19) .108" Bare Copper • 97% Bare Copper Braid Shield

| Foam Polyethylene Insulation • Black PVC Jacket |      |      |      |       |       |      |         |      |      |            |      |       |    |     |    |      |      |      |      |
|-------------------------------------------------|------|------|------|-------|-------|------|---------|------|------|------------|------|-------|----|-----|----|------|------|------|------|
| UL AWM                                          | 8214 | NEC: | 100  | 30.5  | 14.2  | 6.5  | 11 AWG  | .285 | 7.24 | BC Braid   | .403 | 10.24 | 50 | 78% | 26 | 85.3 | 1    | .1   | .5   |
| Style 1354                                      |      | CM   | 500  | 152.4 | 61.0  | 27.7 | (7x19)  |      |      | 97% Shield |      |       |    |     |    |      | 10   | .5   | 1.7  |
| (30V 80°C)                                      |      | CEC: | 1000 | 304.8 | 121.0 | 55.0 | .108"   |      |      | Coverage   |      |       |    |     |    |      | 50   | 1.2  | 3.9  |
|                                                 |      | CM   |      |       |       |      | BC      |      |      | 1.1Ω/M'    |      |       |    |     |    |      | 100  | 1.7  | 5.6  |
|                                                 |      |      |      |       |       |      | 1.2Ω/M' |      |      | 3.6Ω/km    |      |       |    |     |    |      | 200  | 2.6  | 8.5  |
|                                                 |      |      |      |       |       |      | 3.9Ω/km |      |      |            |      |       |    |     |    |      | 400  | 3.9  | 12.8 |
|                                                 |      |      |      |       |       |      |         |      |      |            |      |       |    |     |    |      | 700  | 5.6  | 18.4 |
|                                                 |      |      |      |       |       |      |         |      |      |            |      |       |    |     |    |      | 900  | 6.5  | 21.3 |
|                                                 |      |      |      |       |       |      |         |      |      |            |      |       |    |     |    |      | 1000 | 7.0  | 23.0 |
|                                                 |      |      |      |       |       |      |         |      |      |            |      |       |    |     |    |      | 4000 | 21.5 | 70.5 |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.



# 50 Ohm Transmission and Computer Cable

## RG-8/U Type

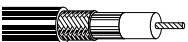
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**RG-8/U Type • 10 AWG** Solid .108" Bare Copper • Duobond® II + 90% Tinned Copper Braid Shield

| Semi-solid Polyethylene Insulation • Black PVC Jacket                            |                         |             |      |       |       |      |         |         |      |            |      |       |    |     |      |      |      |     |      |
|----------------------------------------------------------------------------------|-------------------------|-------------|------|-------|-------|------|---------|---------|------|------------|------|-------|----|-----|------|------|------|-----|------|
|  | <b>Low Loss</b><br>75°C | <b>9913</b> | 100  | 30.5  | 14.0  | 6.4  | 10 AWG  | .286    | 7.26 | Duobond II | .405 | 10.29 | 50 | 84% | 24.6 | 80.7 | 1    | .3  | 1.0  |
|                                                                                  |                         |             | 250  | 76.2  | 31.3  | 14.2 | (solid) |         |      | + 90%      |      |       |    |     |      |      | 10   | .5  | 1.6  |
|                                                                                  |                         |             | 500  | 152.4 | 57.5  | 26.1 | .108"   |         |      | TC Braid   |      |       |    |     |      |      | 50   | 1.1 | 3.6  |
|                                                                                  |                         |             | 1000 | 304.8 | 114.0 | 57.8 | BC      |         |      | 1.8Ω/M'    |      |       |    |     |      |      | 100  | 1.6 | 5.1  |
|                                                                                  |                         |             |      |       |       |      | .9Ω/M'  |         |      | 5.9Ω/km    |      |       |    |     |      |      | 200  | 2.2 | 7.2  |
|                                                                                  |                         |             |      |       |       |      |         | 3.0Ω/km |      |            |      |       |    |     |      |      | 400  | 3.1 | 10.1 |
|                                                                                  |                         |             |      |       |       |      |         |         |      |            |      |       |    |     |      |      | 700  | 4.1 | 13.3 |
|                                                                                  |                         |             |      |       |       |      |         |         |      |            |      |       |    |     |      |      | 900  | 4.6 | 15.1 |
|                                                                                  |                         |             |      |       |       |      |         |         |      |            |      |       |    |     |      |      | 1000 | 4.8 | 15.9 |
|                                                                                  |                         |             |      |       |       |      |         |         |      |            |      |       |    |     |      |      | 4000 | 9.6 | 31.5 |

For Plenum version of 9913, see 89913.

**RG-8/U Type • 10 AWG** Stranded (7x19) .108" Bare Copper • Duobond II + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Matte Black Belflex® Jacket                  |                                             |               |      |       |       |      |        |         |      |            |         |       |    |     |      |      |     |      |      |      |
|----------------------------------------------------------------------------------|---------------------------------------------|---------------|------|-------|-------|------|--------|---------|------|------------|---------|-------|----|-----|------|------|-----|------|------|------|
|  | <b>Low Loss</b><br><b>High-Flex</b><br>80°C | <b>9913F7</b> | 100  | 30.5  | 12.4  | 5.6  | 10 AWG | .285    | 7.24 | Duobond II | .405    | 10.29 | 50 | 83% | 24.6 | 80.7 | 1   | .4   | 1.3  |      |
|                                                                                  |                                             |               | 250  | 76.2  | 27.5  | 12.5 | (7x19) |         |      | + 95% TC   |         |       |    |     |      |      | 10  | .6   | 2.1  |      |
|                                                                                  |                                             |               | 500  | 152.4 | 52.0  | 23.6 | .108"  |         |      | Braid      |         |       |    |     |      |      | 50  | 1.3  | 4.4  |      |
|                                                                                  |                                             |               | 1000 | 304.8 | 102.0 | 46.4 | BC     |         |      | 1.1Ω/M'    |         |       |    |     |      |      | 100 | 1.8  | 6.0  |      |
|                                                                                  |                                             |               |      |       |       |      |        | 1.1Ω/M' |      |            | 3.6Ω/km |       |    |     |      |      |     | 200  | 2.5  | 8.4  |
|                                                                                  |                                             |               |      |       |       |      |        | 3.7Ω/km |      |            |         |       |    |     |      |      |     | 400  | 3.5  | 11.5 |
|                                                                                  |                                             |               |      |       |       |      |        |         |      |            |         |       |    |     |      |      |     | 700  | 4.6  | 15.0 |
|                                                                                  |                                             |               |      |       |       |      |        |         |      |            |         |       |    |     |      |      |     | 900  | 5.1  | 16.9 |
|                                                                                  |                                             |               |      |       |       |      |        |         |      |            |         |       |    |     |      |      |     | 1000 | 5.4  | 17.7 |
|                                                                                  |                                             |               |      |       |       |      |        |         |      |            |         |       |    |     |      |      |     | 4000 | 10.3 | 33.8 |

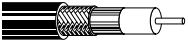
**RG-8/U Type • 10 AWG** Solid .108" Bare Copper • Duobond II + 90% Tinned Copper Braid Shield

| Plenum • Semi-solid FEP Insulation • Black Fluorocopolymer Jacket                  |       |         |                   |       |       |        |         |      |         |            |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------------|-------|---------|-------------------|-------|-------|--------|---------|------|---------|------------|------|------|----|-----|------|------|------|------|------|
| 150°C                                                                              | 89913 | NEC:    | 500 <sup>†</sup>  | 152.4 | 63.0  | 28.6   | 10 AWG  | .295 | 7.49    | Duobond II | .364 | 9.25 | 50 | 83% | 25.0 | 82.0 | 1    | .1   | .3   |
|  |       | CMP     | 1000 <sup>†</sup> | 304.8 | 128.0 | 58.2   | (solid) |      |         | + 90%      |      |      |    |     |      |      | 10   | .4   | 1.3  |
|                                                                                    |       | CEC:    |                   |       |       |        | .108"   |      |         | TC Braid   |      |      |    |     |      |      | 50   | 1.0  | 3.3  |
|                                                                                    |       | CMP FT6 |                   |       |       |        | BC      |      |         | 1.8Ω/M'    |      |      |    |     |      |      | 100  | 1.6  | 5.2  |
|                                                                                    |       |         |                   |       |       | .9Ω/M' |         |      | 5.9Ω/km |            |      |      |    |     |      | 200  | 2.3  | 7.5  |      |
|                                                                                    |       |         |                   |       |       |        |         |      |         |            |      |      |    |     |      | 400  | 3.4  | 11.1 |      |
|                                                                                    |       |         |                   |       |       |        |         |      |         |            |      |      |    |     |      | 700  | 5.0  | 16.4 |      |
|                                                                                    |       |         |                   |       |       |        |         |      |         |            |      |      |    |     |      |      | 900  | 6.0  | 19.7 |
|                                                                                    |       |         |                   |       |       |        |         |      |         |            |      |      |    |     |      |      | 1000 | 6.9  | 22.6 |
|                                                                                    |       |         |                   |       |       |        |         |      |         |            |      |      |    |     |      |      | 4000 | 17.0 | 55.8 |

**RG-8/U Type • 10 AWG** Solid .103" Bare Copper • Duobond II + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black PVC Jacket                                                                                                                            |      |         |      |       |       |      |         |         |      |            |      |       |    |     |      |      |   |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|------|-------|-------|------|---------|---------|------|------------|------|-------|----|-----|------|------|---|------|------|------|
| <div>Low Loss</div> <div>UL AWM</div> <div>Style 1354</div> <div>(30V 80°C)</div> <div></div> | 9914 | NEC:    | 500  | 152.4 | 60.0  | 27.3 | 10 AWG  | .285    | 7.24 | Duobond II | .403 | 10.24 | 50 | 82% | 24.8 | 81.4 | 1 | .4   | 1.3  |      |
|                                                                                                                                                                                 |      | CMG     | 1000 | 304.8 | 119.0 | 54.1 | (solid) |         |      | + 95%      |      |       |    |     |      |      |   | 10   | .6   | 2.1  |
|                                                                                                                                                                                 |      | CEC:    |      |       |       |      | .103"   |         |      | TC Braid   |      |       |    |     |      |      |   | 50   | 1.3  | 4.4  |
|                                                                                                                                                                                 |      | CMG FT4 |      |       |       |      | BC      |         |      | 1.1Ω/M'    |      |       |    |     |      |      |   | 100  | 1.8  | 6.0  |
|                                                                                                                                                                                 |      |         |      |       |       |      | 1.2Ω/M' |         |      | 3.6Ω/km    |      |       |    |     |      |      |   |      | 200  | 2.5  |
|                                                                                                                                                                                 |      |         |      |       |       |      |         | 3.9Ω/km |      |            |      |       |    |     |      |      |   | 400  | 3.5  | 11.5 |
|                                                                                                                                                                                 |      |         |      |       |       |      |         |         |      |            |      |       |    |     |      |      |   | 700  | 4.6  | 15.0 |
|                                                                                                                                                                                 |      |         |      |       |       |      |         |         |      |            |      |       |    |     |      |      |   | 900  | 5.1  | 16.9 |
|                                                                                                                                                                                 |      |         |      |       |       |      |         |         |      |            |      |       |    |     |      |      |   | 1000 | 5.4  | 17.7 |
|                                                                                                                                                                                 |      |         |      |       |       |      |         |         |      |            |      |       |    |     |      |      |   | 4000 | 10.3 | 33.8 |

**RG-8/U Type • 10 AWG** Solid .108" Bare Copper • Duofoil® + 90% Tinned Copper Braid Shield

| Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket                        |                   |       |         |      |         |       |      |         |      |      |          |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------------|-------------------|-------|---------|------|---------|-------|------|---------|------|------|----------|------|------|----|-----|------|------|------|------|------|
|  | Low Loss<br>125°C | 7733A | NEC:    | 500  | 152.4   | 53.5  | 24.3 | 10 AWG  | .280 | 7.11 | Duofoil  | .355 | 9.01 | 50 | 84% | 24.2 | 79.4 | 1    | .1   | .3   |
|                                                                                    |                   |       | CMP     | 1000 | 304.8   | 105.0 | 47.7 | (solid) |      |      | + 90%    |      |      |    |     |      |      | 10   | .4   | 1.3  |
|                                                                                    |                   |       | CEC:    |      |         |       |      | .108"   |      |      | TC Braid |      |      |    |     |      |      | 50   | 1.1  | 3.6  |
|                                                                                    |                   |       | CMP FT6 |      |         |       |      | BC      |      |      | 1.8Ω/M'  |      |      |    |     |      |      | 100  | 1.5  | 4.9  |
|                                                                                    |                   |       |         |      |         |       |      | .9Ω/M'  |      |      | 5.9Ω/km  |      |      |    |     |      |      | 200  | 2.1  | 6.9  |
|                                                                                    |                   |       |         |      | 3.0Ω/km |       |      |         |      |      |          |      |      |    | 400 | 3.2  | 10.5 |      |      |      |
|                                                                                    |                   |       |         |      |         |       |      |         |      |      |          |      |      |    |     |      |      | 700  | 4.5  | 14.8 |
|                                                                                    |                   |       |         |      |         |       |      |         |      |      |          |      |      |    |     |      |      | 900  | 5.7  | 18.7 |
|                                                                                    |                   |       |         |      |         |       |      |         |      |      |          |      |      |    |     |      |      | 1000 | 5.9  | 19.4 |
|                                                                                    |                   |       |         |      |         |       |      |         |      |      |          |      |      |    |     |      |      | 4000 | 14.1 | 46.3 |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.



By:



INTERSTATE WIRE

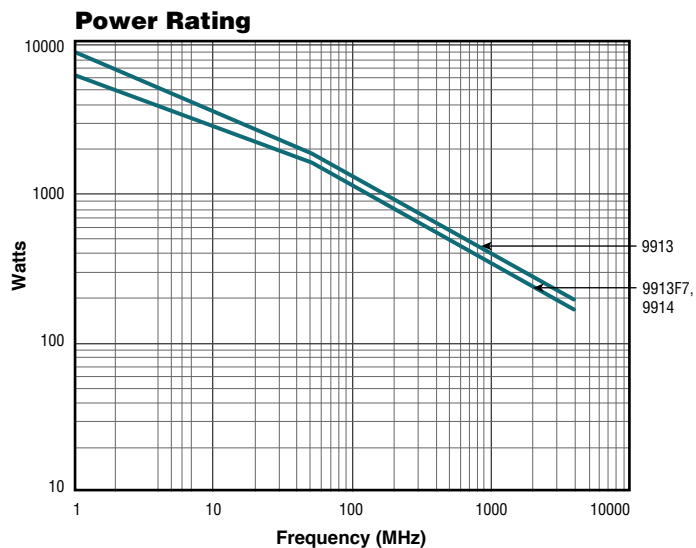
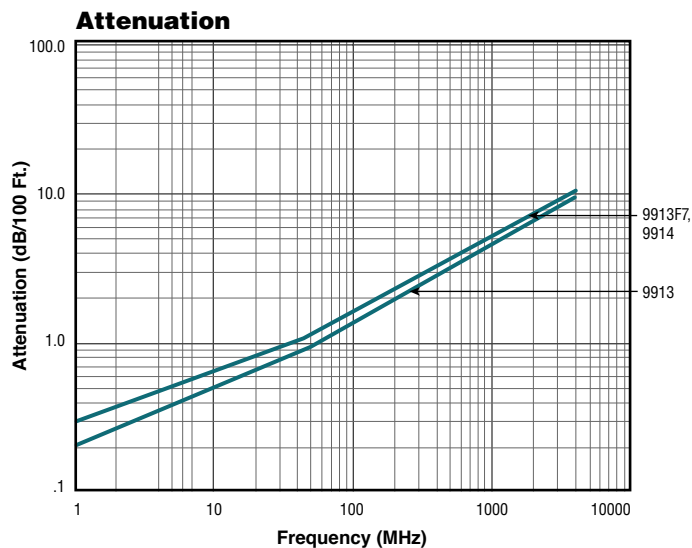
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

## 50 Ohm Transmission Cable

Electrical Characteristics of 9913, 9913F7 and 9914



# Conformable® Coax Cable

## 50 Ohm Microwave Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### M17/151 Type • 29 AWG Solid .011" Silver-coated Copper-covered Steel • Copper-Tin Composite Shield (100% Coverage)

#### TFE Teflon® Insulation • Unjacketed

|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      |       |       |       |
|-------------|--------|--|-------|-------|-----|-----|-----------|------|-----|-------------|------|------|----|-------|------|------|-------|-------|-------|
| UL AWM      | 1674A* |  | 50†   | 15.2  | .2  | .1  | 29 AWG    | .034 | .85 | CT          | .047 | 1.19 | 50 | 69.5% | 29.5 | 96.8 | 500   | 25.0  | 82.0  |
| Style 10245 |        |  | 100†  | 30.5  | .4  | .2  | (solid)   |      |     | Composite   |      |      |    |       |      |      | 1000  | 36.7  | 120.3 |
| (30V 105°C) |        |  | 500†  | 152.4 | 2.0 | .9  | .011"     |      |     | 100% Shield |      |      |    |       |      |      | 2000  | 53.8  | 176.5 |
|             |        |  | 1000† | 304.8 | 5.0 | 2.3 | SCCCS     |      |     | Coverage    |      |      |    |       |      |      | 3000  | 67.3  | 220.8 |
|             |        |  |       |       |     |     | 205.0Ω/M' |      |     | 8.0Ω/M'     |      |      |    |       |      |      | 5000  | 89.2  | 292.8 |
|             |        |  |       |       |     |     | 672.4Ω/km |      |     | 26.2Ω/km    |      |      |    |       |      |      | 7000  | 107.5 | 352.6 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 10000 | 130.9 | 429.5 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 15000 | 163.8 | 537.4 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 18000 | 181.1 | 594.3 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 20000 | 192.0 | 630.0 |



### M17/151 Type • 29 AWG Solid .011" Silver-plated Copper • Copper-Tin Composite Shield (100% Coverage)

#### TFE Teflon® Insulation • Unjacketed

|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      |       |       |       |
|-------------|--------|--|-------|-------|-----|-----|-----------|------|-----|-------------|------|------|----|-------|------|------|-------|-------|-------|
| UL AWM      | 1674B* |  | 100†  | 15.2  | .4  | .2  | 29 AWG    | .034 | .85 | CT          | .047 | 1.19 | 50 | 69.5% | 29.5 | 96.8 | 500   | 25.0  | 82.0  |
| Style 10245 | new    |  | 500†  | 152.4 | 2.0 | .9  | (solid)   |      |     | Composite   |      |      |    |       |      |      | 1000  | 36.7  | 120.3 |
| (30V 105°C) |        |  | 1000† | 304.8 | 5.0 | 2.3 | .011"     |      |     | 100% Shield |      |      |    |       |      |      | 2000  | 53.8  | 176.5 |
|             |        |  |       |       |     |     | SPC       |      |     | Coverage    |      |      |    |       |      |      | 3000  | 67.3  | 220.8 |
|             |        |  |       |       |     |     | 81.2Ω/M'  |      |     | 8.0Ω/M'     |      |      |    |       |      |      | 5000  | 89.2  | 292.8 |
|             |        |  |       |       |     |     | 266.4Ω/km |      |     | 26.2Ω/km    |      |      |    |       |      |      | 7000  | 107.5 | 352.6 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 10000 | 130.9 | 429.5 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 15000 | 163.8 | 537.4 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 18000 | 181.1 | 594.3 |
|             |        |  |       |       |     |     |           |      |     |             |      |      |    |       |      |      | 20000 | 192.0 | 630.0 |



### RG-405/U Type • 24 AWG Solid .020" Silver-coated Copper-covered Steel • Copper-Tin Composite Shield (100% Coverage)

#### TFE Teflon® Insulation • Unjacketed

|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |       |       |       |
|-------------|--------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|-------|-------|-------|
| UL AWM      | 1671A* |  | 50†   | 15.2  | 2.8  | 1.3 | 24 AWG    | .062 | 1.57 | CT          | .085 | 2.16 | 50 | 69.5% | 29.5 | 96.8 | 500   | 13.0  | 42.7  |
| Style 10245 |        |  | 100†  | 30.5  | 3.3  | 1.5 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 1000  | 19.4  | 63.5  |
| (30V 105°C) |        |  | 500†  | 152.4 | 8.0  | 3.6 | .020"     |      |      | 100% Shield |      |      |    |       |      |      | 2000  | 28.8  | 94.5  |
|             |        |  | 1000† | 304.8 | 14.0 | 6.4 | SCCCS     |      |      | Coverage    |      |      |    |       |      |      | 3000  | 36.4  | 119.3 |
|             |        |  |       |       |      |     | 64.2Ω/M'  |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 5000  | 48.7  | 159.9 |
|             |        |  |       |       |      |     | 210.6Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 7000  | 59.1  | 194.0 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 10000 | 72.6  | 238.0 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 15000 | 91.6  | 300.4 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 18000 | 101.7 | 333.6 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 20000 | 108.0 | 354.3 |



#### TFE Teflon® Insulation • PVC Jacket (Black or Clear)

|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |       |       |       |
|-------------|--------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|-------|-------|-------|
| UL AWM      | 1671J* |  | 100†  | 30.5  | 3.7  | 1.7 | 24 AWG    | .062 | 1.57 | CT          | .127 | 3.23 | 50 | 69.5% | 29.5 | 96.8 | 500   | 13.0  | 47.2  |
| Style 10245 |        |  | 500†  | 152.4 | 9.5  | 4.7 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 1000  | 19.4  | 63.5  |
| (30V 105°C) |        |  | 1000† | 304.8 | 18.0 | 8.2 | .020"     |      |      | 100% Shield |      |      |    |       |      |      | 2000  | 28.8  | 94.5  |
|             |        |  |       |       |      |     | SCCCS     |      |      | Coverage    |      |      |    |       |      |      | 3000  | 36.4  | 119.3 |
|             |        |  |       |       |      |     | 64.2Ω/M'  |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 5000  | 48.7  | 159.9 |
|             |        |  |       |       |      |     | 210.6Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 7000  | 59.1  | 194.0 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 10000 | 72.6  | 238.0 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 15000 | 91.6  | 300.4 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 18000 | 101.7 | 333.6 |
|             |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 20000 | 108.0 | 354.3 |



### RG-405/U Type • 24 AWG Solid .020" Silver-plated Copper • Copper-Tin Composite Shield (100% Coverage)

#### TFE Teflon® Insulation • Unjacketed

|             |       |  |       |       |      |     |          |      |      |             |      |      |    |       |      |      |       |       |       |
|-------------|-------|--|-------|-------|------|-----|----------|------|------|-------------|------|------|----|-------|------|------|-------|-------|-------|
| UL AWM      | 1671B |  | 100†  | 30.5  | 3.3  | 1.5 | 24 AWG   | .062 | 1.57 | CT          | .085 | 2.16 | 50 | 69.5% | 29.5 | 96.8 | 500   | 13.0  | 47.2  |
| Style 10245 | new   |  | 500†  | 152.4 | 8.0  | 3.6 | (solid)  |      |      | Composite   |      |      |    |       |      |      | 1000  | 19.4  | 63.5  |
| (30V 105°C) |       |  | 1000† | 304.8 | 14.0 | 6.4 | .020"    |      |      | 100% Shield |      |      |    |       |      |      | 2000  | 28.8  | 94.5  |
|             |       |  |       |       |      |     | SPC      |      |      | Coverage    |      |      |    |       |      |      | 3000  | 36.4  | 119.3 |
|             |       |  |       |       |      |     | 25.7Ω/M' |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 5000  | 48.7  | 159.9 |
|             |       |  |       |       |      |     | 84.3Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 7000  | 59.1  | 194.0 |
|             |       |  |       |       |      |     |          |      |      |             |      |      |    |       |      |      | 10000 | 72.6  | 238.0 |
|             |       |  |       |       |      |     |          |      |      |             |      |      |    |       |      |      | 15000 | 91.6  | 300.4 |
|             |       |  |       |       |      |     |          |      |      |             |      |      |    |       |      |      | 18000 | 101.7 | 333.6 |
|             |       |  |       |       |      |     |          |      |      |             |      |      |    |       |      |      | 20000 | 108.0 | 354.3 |



CT = Copper-Tin • DCR = DC Resistance • SCCC = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

\*Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†50 ft. put-up: Exact 1 piece

100 ft. put-up: Exact 2 pieces (maximum), 25 feet minimum length

250 ft. put-up: Exact 3 pieces (maximum), 25 feet minimum length

500 ft. put-up: Exact 4 pieces (maximum), 25 feet minimum length

1000 ft. put-up: Exact 3 pieces (maximum), 328 feet minimum length

Teflon is a Dupont trademark.



By:



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

# Conformable® Coax Cable

## 50 Ohm Microwave Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### RG-402/U Type • 19 AWG Solid .036" Silver-coated Copper-covered Steel • Copper-Tin Composite Shield (100% Coverage)

#### TFE Teflon® Insulation • Unjacketed

|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      |       |      |       |
|-------------|--------|--|------|-------|------|-----|----------|------|------|-------------|------|------|----|-------|------|------|-------|------|-------|
| UL AWM      | 1673A* |  | 50†  | 15.2  | 4.1  | 1.8 | 19 AWG   | .116 | 2.95 | CT          | .138 | 3.51 | 50 | 69.5% | 29.5 | 96.8 | 500   | 8.0  | 26.2  |
| Style 10245 |        |  | 100† | 30.5  | 4.7  | 2.1 | (solid)  |      |      | Composite   |      |      |    |       |      |      | 1000  | 12.0 | 39.5  |
| (30V 105°C) |        |  | 250† | 76.2  | 8.8  | 4.0 | .036"    |      |      | 100% Shield |      |      |    |       |      |      | 2000  | 18.1 | 59.3  |
|             |        |  | 500† | 152.4 | 15.0 | 6.8 | SCCCS    |      |      | Coverage    |      |      |    |       |      |      | 3000  | 22.9 | 75.3  |
|             |        |  |      |       |      |     | 20.5Ω/M' |      |      | 4.5Ω/M'     |      |      |    |       |      |      | 5000  | 31.0 | 101.6 |
|             |        |  |      |       |      |     | 67.2Ω/km |      |      | 14.8Ω/km    |      |      |    |       |      |      | 7000  | 37.8 | 123.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 10000 | 46.6 | 152.8 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 15000 | 59.1 | 193.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 18000 | 65.8 | 215.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 20000 | 70.0 | 229.7 |



#### TFE Teflon Insulation • PVC Jacket (Black or Clear)

|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      |       |      |       |
|-------------|--------|--|------|-------|------|-----|----------|------|------|-------------|------|------|----|-------|------|------|-------|------|-------|
| UL AWM      | 1673B* |  | 100† | 30.5  | 5.1  | 2.3 | 19 AWG   | .116 | 2.95 | CT          | .178 | 4.52 | 50 | 69.5% | 29.5 | 96.8 | 500   | 8.0  | 26.2  |
| Style 10245 |        |  | 500† | 152.4 | 17.5 | 8.0 | (solid)  |      |      | Composite   |      |      |    |       |      |      | 1000  | 12.0 | 39.5  |
| (30V 105°C) |        |  |      |       |      |     | .036"    |      |      | 100% Shield |      |      |    |       |      |      | 2000  | 18.1 | 59.3  |
|             |        |  |      |       |      |     | SCCCS    |      |      | Coverage    |      |      |    |       |      |      | 3000  | 22.9 | 75.3  |
|             |        |  |      |       |      |     | 20.5Ω/M' |      |      | 4.5Ω/M'     |      |      |    |       |      |      | 5000  | 31.0 | 101.6 |
|             |        |  |      |       |      |     | 67.2Ω/km |      |      | 14.8Ω/km    |      |      |    |       |      |      | 7000  | 37.8 | 123.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 10000 | 46.6 | 152.8 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 15000 | 59.1 | 193.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 18000 | 65.8 | 215.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 20000 | 70.0 | 229.7 |



### RG-402/U Type • AWG 19 Solid .036" Silver-plated Copper • Copper-Tin Composite Shield (100% Coverage)

#### TFE Teflon Insulation • Unjacketed

|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      |       |      |       |
|-------------|--------|--|------|-------|------|-----|----------|------|------|-------------|------|------|----|-------|------|------|-------|------|-------|
| UL AWM      | 1673B* |  | 100† | 30.5  | 4.7  | 2.1 | 19 AWG   | .116 | 2.95 | CT          | .138 | 3.51 | 50 | 69.5% | 29.5 | 96.8 | 500   | 8.0  | 26.2  |
| Style 10245 | new    |  | 250† | 76.2  | 8.5  | 3.9 | (solid)  |      |      | Composite   |      |      |    |       |      |      | 1000  | 12.0 | 39.5  |
| (30V 105°C) |        |  | 500† | 152.4 | 15.0 | 6.8 | .036"    |      |      | 100% Shield |      |      |    |       |      |      | 2000  | 18.1 | 59.3  |
|             |        |  |      |       |      |     | SPC      |      |      | Coverage    |      |      |    |       |      |      | 3000  | 22.9 | 75.3  |
|             |        |  |      |       |      |     | 7.9Ω/M'  |      |      | 4.5Ω/M'     |      |      |    |       |      |      | 5000  | 31.0 | 101.6 |
|             |        |  |      |       |      |     | 25.9Ω/km |      |      | 14.8Ω/km    |      |      |    |       |      |      | 7000  | 37.8 | 123.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 10000 | 46.6 | 152.8 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 15000 | 59.1 | 193.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 18000 | 65.8 | 215.9 |
|             |        |  |      |       |      |     |          |      |      |             |      |      |    |       |      |      | 20000 | 70.0 | 229.7 |



### RG-401/U Type • 14 AWG Solid .065" Silver-plated Copper • Copper-Tin Composite Shield (100% Coverage)

#### TFE Teflon Insulation • Unjacketed

|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      |       |      |       |
|-------------|--------|--|------|-------|------|------|---------|------|------|-------------|------|------|----|-------|------|------|-------|------|-------|
| UL AWM      | 1675A* |  | 50†  | 15.2  | 4.1  | 1.8  | 14 AWG  | .210 | 5.33 | CT          | .246 | 6.25 | 50 | 69.5% | 29.6 | 97.1 | 400   | 3.8  | 12.6  |
| Style 10245 | new    |  | 100† | 30.5  | 8.1  | 3.7  | (solid) |      |      | Composite   |      |      |    |       |      |      | 500   | 4.4  | 14.4  |
| (30V 105°C) |        |  | 250† | 76.2  | 20.3 | 9.2  | .065"   |      |      | 100% Shield |      |      |    |       |      |      | 1000  | 6.8  | 22.2  |
|             |        |  | 500† | 152.4 | 40.5 | 18.4 | SPC     |      |      | Coverage    |      |      |    |       |      |      | 2000  | 10.4 | 34.2  |
|             |        |  |      |       |      |      | 2.5Ω/M' |      |      | 8.0Ω/M'     |      |      |    |       |      |      | 3000  | 13.4 | 44.1  |
|             |        |  |      |       |      |      | 8.2Ω/km |      |      | 26.2Ω/km    |      |      |    |       |      |      | 5000  | 18.5 | 60.6  |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 7000  | 22.8 | 74.7  |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 10000 | 28.4 | 93.3  |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 15000 | 36.6 | 120.1 |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 18000 | 41.0 | 134.5 |



#### TFE Teflon Insulation • Clear PVC Jacket

|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      |       |      |       |
|-------------|--------|--|------|-------|------|------|---------|------|------|-------------|------|------|----|-------|------|------|-------|------|-------|
| UL AWM      | 1675J* |  | 50†  | 15.2  | 4.5  | 2.0  | 14 AWG  | .210 | 5.33 | CT          | .286 | 7.26 | 50 | 69.5% | 29.6 | 97.1 | 400   | 3.8  | 12.6  |
| Style 10245 | new    |  | 100† | 30.5  | 9.0  | 4.1  | (solid) |      |      | Composite   |      |      |    |       |      |      | 500   | 4.4  | 14.4  |
| (30V 105°C) |        |  | 250† | 76.2  | 22.8 | 10.3 | .065"   |      |      | 100% Shield |      |      |    |       |      |      | 1000  | 6.8  | 22.2  |
|             |        |  | 500† | 152.4 | 45.0 | 20.5 | SPC     |      |      | Coverage    |      |      |    |       |      |      | 2000  | 10.4 | 34.2  |
|             |        |  |      |       |      |      | 2.5Ω/M' |      |      | 8.0Ω/M'     |      |      |    |       |      |      | 3000  | 13.4 | 44.1  |
|             |        |  |      |       |      |      | 8.2Ω/km |      |      | 26.2Ω/km    |      |      |    |       |      |      | 5000  | 18.5 | 60.6  |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 7000  | 22.8 | 74.7  |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 10000 | 28.4 | 93.3  |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 15000 | 36.6 | 120.1 |
|             |        |  |      |       |      |      |         |      |      |             |      |      |    |       |      |      | 18000 | 41.0 | 134.5 |



CT = Copper-Tin • DCR = DC Resistance • SCCC = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

\*Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†50 ft. put-up: Exact 1 piece  
 100 ft. put-up: Exact 2 pieces (maximum), 25 feet minimum length  
 250 ft. put-up: Exact 3 pieces (maximum), 25 feet minimum length  
 500 ft. put-up: Exact 4 pieces (maximum), 25 feet minimum length  
 1000 ft. put-up: Exact 3 pieces (maximum), 328 feet minimum length

Teflon is a DuPont trademark.

## Conformable® Coax Cable

### 75 Ohm High-Frequency Video Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### 29 AWG Solid .011" Silver-coated Copper-covered Steel • Copper-Tin Composite Shield (100% Coverage)

| TFE Teflon® Insulation • Unjacketed |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |      |      |      |
|-------------------------------------|--------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|------|------|------|
| UL AWM                              | 1672A* |  | 500†  | 152.4 | 8.0  | 3.6 | 29 AWG    | .062 | 1.57 | CT          | .085 | 2.21 | 75 | 69.5% | 19.5 | 64.0 | 1    | 1.2  | 3.9  |
| Style 10245                         |        |  | 1000† | 304.8 | 14.0 | 6.4 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 10   | 2.4  | 7.9  |
| (30V 105°C)                         |        |  |       |       |      |     | .011"     |      |      | 100% Shield |      |      |    |       |      |      | 50   | 4.5  | 14.8 |
|                                     |        |  |       |       |      |     | SCCCS     |      |      | Coverage    |      |      |    |       |      |      | 100  | 6.6  | 21.6 |
|                                     |        |  |       |       |      |     | 205.0Ω/M' |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 200  | 10.0 | 32.8 |
|                                     |        |  |       |       |      |     | 672.4Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 400  | 15.0 | 49.2 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 500  | 17.0 | 55.8 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 700  | 21.0 | 68.9 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 900  | 24.0 | 78.7 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 1000 | 26.0 | 85.3 |



| TFE Teflon Insulation • PVC Jacket (Black or Clear) |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |      |      |      |
|-----------------------------------------------------|--------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|------|------|------|
| UL AWM                                              | 1672J* |  | 100†* | 30.5  | 3.1  | 1.4 | 29 AWG    | .062 | 1.57 | CT          | .127 | 3.23 | 75 | 69.5% | 19.5 | 64.0 | 1    | 1.2  | 3.9  |
| Style 10245                                         |        |  | 500†  | 152.4 | 9.5  | 4.3 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 10   | 2.4  | 7.9  |
| (30V 105°C)                                         |        |  | 1000† | 304.8 | 17.0 | 7.7 | .011"     |      |      | 100% Shield |      |      |    |       |      |      | 50   | 4.5  | 14.8 |
|                                                     |        |  |       |       |      |     | SCCCS     |      |      | Coverage    |      |      |    |       |      |      | 100  | 6.6  | 21.6 |
|                                                     |        |  |       |       |      |     | 205.0Ω/M' |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 200  | 10.0 | 32.8 |
|                                                     |        |  |       |       |      |     | 672.4Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 400  | 15.0 | 49.2 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 500  | 17.0 | 55.8 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 700  | 21.0 | 68.9 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 900  | 24.0 | 78.7 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 1000 | 26.0 | 85.3 |

\*100 ft. put-up available in Clear only.

#### 29 AWG Solid .011" Silver-plated Copper • Copper-Tin Composite Shield (100% Coverage)

| TFE Teflon Insulation • Unjacketed |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |      |      |      |
|------------------------------------|------------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|------|------|------|
| UL AWM                             | 1672B*     |  | 100†  | 30.5  | 3.3  | 1.5 | 29 AWG    | .062 | 1.57 | CT          | .087 | 2.21 | 75 | 69.5% | 19.5 | 64.0 | 1    | 1.2  | 3.9  |
| Style 10245                        | <b>new</b> |  | 500†  | 152.4 | 8.0  | 3.6 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 10   | 2.4  | 7.9  |
| (30V 105°C)                        |            |  | 1000† | 304.8 | 14.0 | 6.4 | .011"     |      |      | 100% Shield |      |      |    |       |      |      | 50   | 4.5  | 14.8 |
|                                    |            |  |       |       |      |     | SPC       |      |      | Coverage    |      |      |    |       |      |      | 100  | 6.6  | 21.7 |
|                                    |            |  |       |       |      |     | 81.2Ω/M'  |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 200  | 10.0 | 32.8 |
|                                    |            |  |       |       |      |     | 266.4Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 400  | 15.0 | 49.2 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 500  | 17.0 | 55.8 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 700  | 21.0 | 68.9 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 900  | 24.0 | 78.7 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 1000 | 26.0 | 85.3 |

Non-ferrous design.

CT = Copper Tin • DCR = DC Resistance • SCCC = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

\*Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†50 ft. put-up: Exact 1 piece

100 ft. put-up: Exact 2 pieces (maximum), 25 feet minimum length

250 ft. put-up: Exact 3 pieces (maximum), 25 feet minimum length

500 ft. put-up: Exact 4 pieces (maximum), 25 feet minimum length

1000 ft. put-up: Exact 3 pieces (maximum), 328 feet minimum length

Teflon is a DuPont trademark.

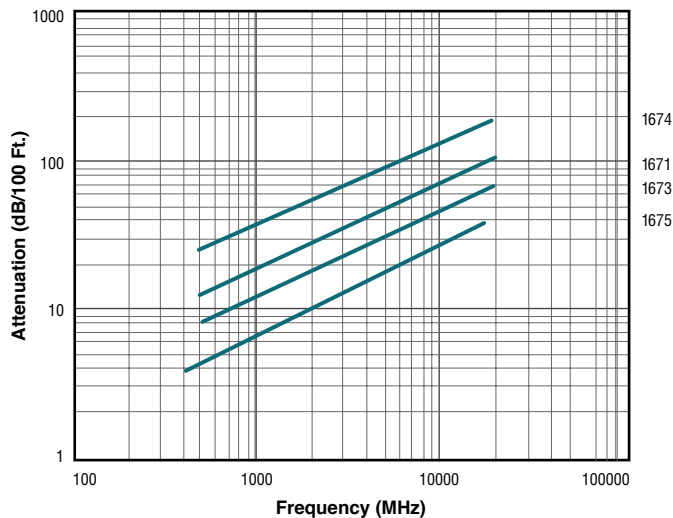


By: **INTERSTATE WIRE CO.** INCORPORATED  
Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1** or **1-800-BELDEN-3** [www.belden.com](http://www.belden.com)  
**1-800-527-0010**

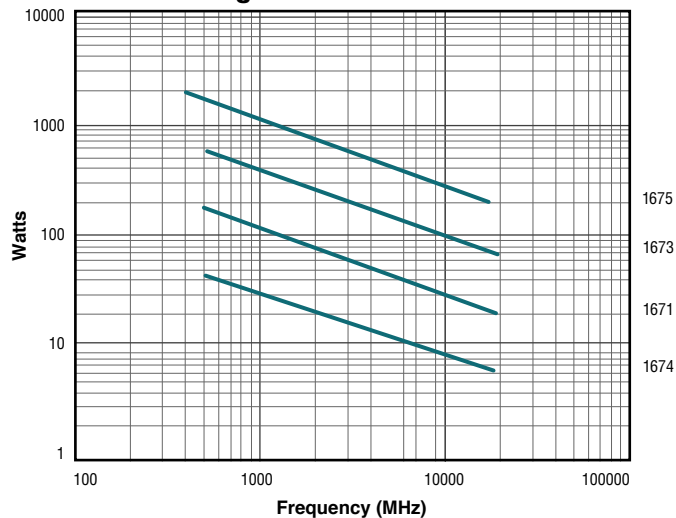
## Conformable® Coax Cable

### Electrical Characteristics

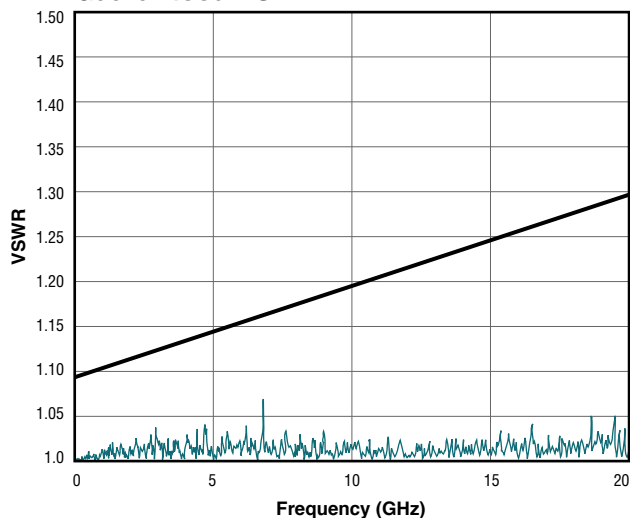
**Attenuation**



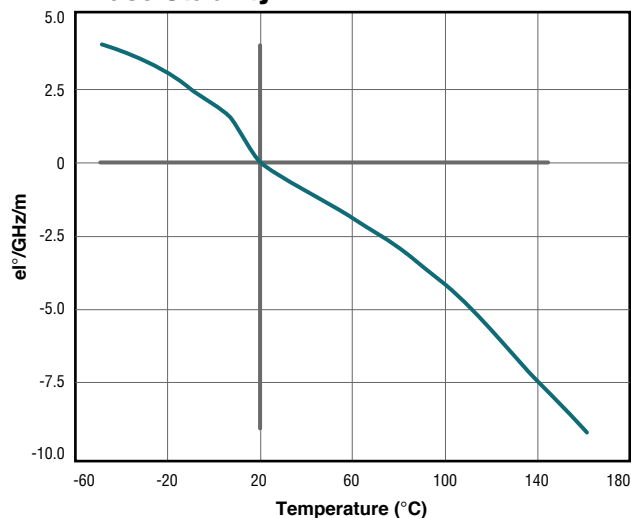
**Power Rating**



**Guaranteed VSWR**



**Phase Stability**



Conformable Coax cable is an alternative to semi-rigid and flexible coax for "black box" applications involving internal, head-end wiring of electronic equipment, delay lines, and high-frequency applications.

**MIL-C-17G QPL Cable**

50 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>( $\Omega$ ) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                           |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**30 AWG Stranded (7x38) .012" Silver-coated Copper-covered Steel • Silver-coated Copper Braid Shield****TFE Teflon® Insulation • White FEP Jacket**

|       |              |  |       |       |     |     |                    |      |     |                   |      |      |    |       |      |      |      |      |       |
|-------|--------------|--|-------|-------|-----|-----|--------------------|------|-----|-------------------|------|------|----|-------|------|------|------|------|-------|
| 200°C | <b>83265</b> |  | 100†  | 30.5  | .8  | .4  | 30 AWG             | .033 | .84 | SCC Braid         | .071 | 1.80 | 50 | 69.5% | 29.0 | 95.1 | 1    | 2.6  | 8.5   |
| VW-1  |              |  | 500†  | 152.4 | 3.5 | 1.6 | (7x38)             |      |     | 96% Shield        |      |      |    |       |      |      | 10   | 5.6  | 18.4  |
|       |              |  | 1000† | 304.8 | 7.0 | 3.2 | .012"              |      |     | Coverage          |      |      |    |       |      |      | 50   | 10.5 | 34.4  |
|       |              |  |       |       |     |     | SCCCS              |      |     | 14.6 $\Omega$ /M' |      |      |    |       |      |      | 100  | 14.0 | 45.9  |
|       |              |  |       |       |     |     | 244.0 $\Omega$ /M' |      |     | 47.9 $\Omega$ /km |      |      |    |       |      |      | 200  | 19.0 | 62.3  |
|       |              |  |       |       |     |     | 801.0 $\Omega$ /km |      |     |                   |      |      |    |       |      |      | 400  | 28.0 | 91.9  |
|       |              |  |       |       |     |     |                    |      |     |                   |      |      |    |       |      |      | 700  | 37.0 | 121.4 |
|       |              |  |       |       |     |     |                    |      |     |                   |      |      |    |       |      |      | 900  | 42.5 | 139.4 |
|       |              |  |       |       |     |     |                    |      |     |                   |      |      |    |       |      |      | 1000 | 46.0 | 150.9 |

M17/169-00001 (RG-178B/U). Non-SWR swept version of RG-178.

**26 AWG Stranded (7x.006") .020" Silver-coated Copper-covered Steel • 95% Silver-coated Copper Braid Shield****TFE Teflon Insulation • White FEP Jacket**

|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      |      |      |      |
|-------|--------------|--|-------|-------|------|-----|--------------------|------|------|-------------------|------|------|----|-------|------|------|------|------|------|
| 200°C | <b>83284</b> |  | 100†  | 30.5  | 1.2  | .5  | 26 AWG             | .058 | 1.47 | SCC Braid         | .098 | 2.49 | 50 | 69.5% | 29.0 | 95.1 | 1    | 1.2  | 3.9  |
| VW-1  |              |  | 500†  | 152.4 | 6.0  | 2.7 | (7x.006")          |      |      | 95% Shield        |      |      |    |       |      |      | 10   | 2.7  | 8.9  |
|       |              |  | 1000† | 304.8 | 11.0 | 5.0 | .020"              |      |      | Coverage          |      |      |    |       |      |      | 50   | 5.6  | 18.4 |
|       |              |  |       |       |      |     | SCCCS              |      |      | 6.5 $\Omega$ /M'  |      |      |    |       |      |      | 100  | 8.3  | 27.2 |
|       |              |  |       |       |      |     | 84.1 $\Omega$ /M'  |      |      | 27.9 $\Omega$ /km |      |      |    |       |      |      | 200  | 12.0 | 39.4 |
|       |              |  |       |       |      |     | 275.9 $\Omega$ /km |      |      |                   |      |      |    |       |      |      | 400  | 17.5 | 57.4 |
|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      | 700  | 23.7 | 77.8 |
|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      | 900  | 27.3 | 89.6 |
|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      | 1000 | 29.0 | 95.1 |

M17/172-00001 (RG-316/U). Non-SWR swept version of RG-316.

**TFE Teflon Insulation • Brown FEP Jacket**

|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      |      |      |      |
|-------|--------------|--|-------|-------|------|-----|--------------------|------|------|-------------------|------|------|----|-------|------|------|------|------|------|
| 200°C | <b>84316</b> |  | 100†  | 30.5  | 1.2  | .5  | 26 AWG             | .058 | 1.47 | SCC Braid         | .098 | 2.44 | 50 | 69.5% | 29.0 | 95.1 | 1    | 1.2  | 3.9  |
| VW-1  |              |  | 500†  | 152.4 | 6.0  | 2.7 | (7x.006")          |      |      | 95% Shield        |      |      |    |       |      |      | 10   | 2.7  | 8.9  |
|       |              |  | 1000† | 304.8 | 11.0 | 5.0 | .020"              |      |      | Coverage          |      |      |    |       |      |      | 50   | 5.6  | 18.4 |
|       |              |  |       |       |      |     | SCCCS              |      |      | 6.5 $\Omega$ /M'  |      |      |    |       |      |      | 100  | 8.3  | 27.2 |
|       |              |  |       |       |      |     | 84.1 $\Omega$ /M'  |      |      | 27.9 $\Omega$ /km |      |      |    |       |      |      | 200  | 12.0 | 39.4 |
|       |              |  |       |       |      |     | 275.9 $\Omega$ /km |      |      |                   |      |      |    |       |      |      | 400  | 17.5 | 57.4 |
|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      | 700  | 23.7 | 77.8 |
|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      | 900  | 27.3 | 89.6 |
|       |              |  |       |       |      |     |                    |      |      |                   |      |      |    |       |      |      | 1000 | 29.0 | 95.1 |

M17/113-RG316

**22 AWG Stranded (27x36) .030" Tinned Copper • 95% Tinned Copper Braid Shield****Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|            |             |      |      |       |      |     |                   |      |      |                   |      |      |    |     |      |       |      |      |      |
|------------|-------------|------|------|-------|------|-----|-------------------|------|------|-------------------|------|------|----|-----|------|-------|------|------|------|
| UL AWM     | <b>9252</b> | NEC: | 1000 | 304.8 | 20.0 | 9.1 | 22 AWG            | .096 | 2.44 | TC Braid          | .160 | 4.06 | 50 | 66% | 30.8 | 101.0 | 1    | .4   | 1.3  |
| Style 1354 |             | CMX  |      |       |      |     | (27x36)           |      |      | Shield            |      |      |    |     |      |       | 10   | 1.7  | 5.6  |
| (30V 60°C) |             | CEC: |      |       |      |     | .030"             |      |      | 95% Shield        |      |      |    |     |      |       | 50   | 4.5  | 14.8 |
|            |             | CMX  |      |       |      |     | TC                |      |      | Coverage          |      |      |    |     |      |       | 100  | 7.0  | 23.0 |
|            |             |      |      |       |      |     | 17.1 $\Omega$ /M' |      |      | 5.2 $\Omega$ /M'  |      |      |    |     |      |       | 200  | 11.0 | 36.1 |
|            |             |      |      |       |      |     | 56.1 $\Omega$ /km |      |      | 17.1 $\Omega$ /km |      |      |    |     |      |       | 400  | 16.5 | 54.1 |
|            |             |      |      |       |      |     |                   |      |      |                   |      |      |    |     |      |       | 700  | 23.5 | 77.1 |
|            |             |      |      |       |      |     |                   |      |      |                   |      |      |    |     |      |       | 900  | 27.3 | 89.6 |
|            |             |      |      |       |      |     |                   |      |      |                   |      |      |    |     |      |       | 1000 | 29.0 | 95.1 |

M17/157-00001 (RG-122/U). Non-SWR swept version of RG-122.

DCR = DC Resistance • SCC = Silver-coated Copper • SCCC = Silver-coated Copper-covered Steel • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.†Spools may contain more than one piece. Length may vary  $\pm 10\%$  from length shown.

Teflon is a DuPont trademark.



By: **INTERSTATEWIRE**  
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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

**MIL-C-17G QPL Cable**

50 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**20 AWG Stranded (19x33) .035" Tinned Copper • 95% Tinned Copper Braid Shield****Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|      |             |  |      |       |      |      |                            |      |      |                                                                 |      |      |    |     |      |       |    |     |     |
|------|-------------|--|------|-------|------|------|----------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|-------|----|-----|-----|
| 85°C | <b>9203</b> |  | 500  | 152.4 | 15.5 | 7.0  | 20 AWG<br>(19x33)<br>.035" | .116 | 2.95 | TC Braid<br>95% Shield<br>Coverage<br>TC<br>4.1Ω/M'<br>13.4Ω/km | .195 | 4.95 | 50 | 66% | 30.8 | 101.0 | 1  | .4  | 1.4 |
|      |             |  | 1000 | 304.8 | 26.0 | 11.8 |                            |      |      |                                                                 |      |      |    |     |      |       | 10 | 1.4 | 4.6 |



M17/28-RG58

|      |             |  |       |         |      |     |                            |      |      |                                                                 |      |      |    |     |      |       |    |     |     |
|------|-------------|--|-------|---------|------|-----|----------------------------|------|------|-----------------------------------------------------------------|------|------|----|-----|------|-------|----|-----|-----|
| 85°C | <b>8262</b> |  | U-500 | U-152.4 | 14.0 | 6.4 | 20 AWG<br>(19x33)<br>.035" | .115 | 2.92 | TC Braid<br>95% Shield<br>Coverage<br>TC<br>4.1Ω/M'<br>13.4Ω/km | .195 | 4.90 | 50 | 66% | 30.8 | 101.0 | 1  | .4  | 1.4 |
|      |             |  | 500   | 152.4   | 16.0 | 4.3 |                            |      |      |                                                                 |      |      |    |     |      |       | 10 | 1.4 | 4.6 |



M17/155-00001 (RG-58C/U). Non-SWR swept version of RG-58.

**19 AWG Solid .034" Silver-coated Copper • Two Silver-coated Copper Braids (95% Shield Coverage)****Polyethylene Insulation • Black Non-contaminating PVC Jacket**

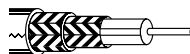
|                                    |             |      |       |         |      |     |                            |      |      |                                                                         |      |      |    |     |      |       |    |     |     |
|------------------------------------|-------------|------|-------|---------|------|-----|----------------------------|------|------|-------------------------------------------------------------------------|------|------|----|-----|------|-------|----|-----|-----|
| UL AWM<br>Style 1354<br>(30V 60°C) | <b>9273</b> | NEC: | 100   | 30.5    | 4.7  | 2.1 | 19 AWG<br>(solid)<br>.034" | .117 | 2.95 | (2) SCC<br>Braids<br>95% Shield<br>Coverage<br>TC<br>2.5Ω/M'<br>8.2Ω/km | .212 | 5.38 | 50 | 66% | 30.8 | 101.0 | 1  | .4  | 1.1 |
|                                    |             | CMX  | U-500 | U-152.4 | 19.5 | 8.9 |                            |      |      |                                                                         |      |      |    |     |      |       | 10 | 1.2 | 3.9 |



M17/167-00001 (RG-223/U). Non-SWR swept version of RG-223.

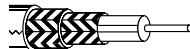
**18 AWG Solid .037" Silver-coated Copper-covered Steel • Two Silver-coated Copper Braids (96% Shield Coverage)****Plenum • TFE Teflon® Insulation • Tinted Brown FEP Jacket**

|               |              |      |      |       |      |      |                            |      |      |                                                                              |      |      |    |     |      |      |    |     |     |
|---------------|--------------|------|------|-------|------|------|----------------------------|------|------|------------------------------------------------------------------------------|------|------|----|-----|------|------|----|-----|-----|
| 200°C<br>VW-1 | <b>84142</b> | NEC: | 100† | 30.5  | 6.2  | 2.8  | 18 AWG<br>(solid)<br>.037" | .116 | 2.95 | (2) SCC<br>Braids<br>96% Shield<br>Coverage<br>SCCCS<br>19.3Ω/M'<br>63.3Ω/km | .195 | 4.95 | 50 | 70% | 29.0 | 95.1 | 1  | .3  | 1.1 |
|               |              | CMP  | 500† | 152.4 | 23.0 | 10.5 |                            |      |      |                                                                              |      |      |    |     |      |      | 10 | 1.1 | 3.6 |



M17/60-RG142

|               |              |      |      |       |      |      |                            |      |      |                                                                              |      |      |    |     |      |      |    |     |     |
|---------------|--------------|------|------|-------|------|------|----------------------------|------|------|------------------------------------------------------------------------------|------|------|----|-----|------|------|----|-----|-----|
| 200°C<br>VW-1 | <b>83242</b> | NEC: | 100† | 30.5  | 6.5  | 3.0  | 18 AWG<br>(solid)<br>.037" | .116 | 2.95 | (2) SCC<br>Braids<br>96% Shield<br>Coverage<br>SCCCS<br>19.3Ω/M'<br>63.3Ω/km | .195 | 4.95 | 50 | 70% | 29.0 | 95.1 | 1  | .3  | 1.1 |
|               |              | CMP  | 500† | 152.4 | 23.0 | 10.5 |                            |      |      |                                                                              |      |      |    |     |      |      | 10 | 1.1 | 3.6 |



M17/158-00001 (RG-142B/U). Non-SWR swept version of RG-142.

**18 AWG Solid .037" Silver-coated Copper-covered Steel • 95% Silver-coated Copper Braid Shield****Plenum • TFE Teflon Insulation • Tinted Brown FEP Jacket**

|               |              |      |       |       |      |      |                            |      |      |                                                                                |      |      |    |     |      |      |    |     |     |
|---------------|--------------|------|-------|-------|------|------|----------------------------|------|------|--------------------------------------------------------------------------------|------|------|----|-----|------|------|----|-----|-----|
| 200°C<br>VW-1 | <b>84303</b> | NEC: | 500†  | 152.4 | 17.0 | 7.7  | 18 AWG<br>(solid)<br>.037" | .116 | 2.95 | SCC Braid<br>Shield<br>95% Shield<br>Coverage<br>SCCCS<br>16.3Ω/M'<br>53.5Ω/km | .170 | 4.31 | 50 | 70% | 29.0 | 95.1 | 1  | .3  | 1.1 |
|               |              | CL2P | 1000† | 304.8 | 32.0 | 14.5 |                            |      |      |                                                                                |      |      |    |     |      |      | 10 | 1.1 | 3.6 |



M17/111-RG303

DCR = DC Resistance • SCC = Silver-coated Copper • SCCC = Silver-coated Copper-covered Steel • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.



**MIL-C-17G QPL Cable**

50 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**15.5 AWG Solid .056" Silver-coated Copper • Two Silver-coated Copper Braids (95% Shield Coverage)****Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       |      |     |      |
|------|-------------|--|------|-------|------|------|------------------------------|------|------|-------------------------------------------------------------------|------|------|----|-----|------|-------|------|-----|------|
| 85°C | <b>9861</b> |  | 1000 | 304.8 | 91.0 | 41.4 | 15.5 AWG<br>(solid)<br>.056" | .185 | 4.70 | (2) SCC<br>Braids<br>95% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .332 | 8.43 | 50 | 66% | 30.8 | 101.0 | 1    | .3  | .9   |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 10   | .8  | 2.7  |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 50   | 1.9 | 6.2  |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 100  | 2.7 | 8.9  |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 200  | 4.1 | 13.5 |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 400  | 5.9 | 19.4 |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 700  | 8.0 | 26.2 |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 900  | 9.1 | 29.9 |
|      |             |  |      |       |      |      |                              |      |      |                                                                   |      |      |    |     |      |       | 1000 | 9.8 | 32.1 |

M17/162-00001 (RG-212/U). Non-SWR swept version of RG-212.

**13 AWG Stranded (7x21) .089" Bare Copper • 97% Bare Copper Braid Shield****Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       |      |      |      |
|------------|-------------|------|------|-------|-------|------|---------|------|------|------------|------|-------|----|-----|------|-------|------|------|------|
| UL AWM     | <b>8267</b> | NEC: | 500  | 152.4 | 57.0  | 25.9 | 13 AWG  | .285 | 7.24 | BC Braid   | .405 | 10.29 | 50 | 66% | 30.8 | 101.0 | 1    | .2   | .6   |
| Style 1354 |             | CMX  | 1000 | 304.8 | 113.0 | 51.4 | (7x21)  |      |      | 97% Shield |      |       |    |     |      |       | 10   | .6   | 1.8  |
| (30V 60°C) |             | CEC: |      |       |       |      | .089"   |      |      | Coverage   |      |       |    |     |      |       | 50   | 1.3  | 4.3  |
|            |             | CMX  |      |       |       |      | BC      |      |      | 1.2Ω/M'    |      |       |    |     |      |       | 100  | 1.9  | 6.2  |
|            |             |      |      |       |       |      | 1.7Ω/M' |      |      | 3.9Ω/km    |      |       |    |     |      |       | 200  | 2.7  | 8.9  |
|            |             |      |      |       |       |      | 5.6Ω/km |      |      |            |      |       |    |     |      |       | 400  | 4.1  | 13.5 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 700  | 6.5  | 21.3 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 900  | 7.6  | 24.9 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 1000 | 8.0  | 26.2 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 4000 | 21.5 | 70.5 |

M17/163-00001 (RG-213/U). Non-SWR swept version of RG-213.

**13 AWG Stranded (7x21) .089" Silver-coated Copper • Two Silver-coated Copper Braids (97% Shield Coverage)****Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       |      |      |      |
|------------|-------------|------|------|-------|-------|------|---------|------|------|------------|------|-------|----|-----|------|-------|------|------|------|
| UL AWM     | <b>8268</b> | NEC: | 500  | 152.4 | 68.0  | 30.9 | 13 AWG  | .285 | 7.24 | (2) SCC    | .425 | 10.80 | 50 | 66% | 30.8 | 101.0 | 1    | .2   | .6   |
| Style 1354 |             | CMX  | 1000 | 304.8 | 135.0 | 61.4 | (7x21)  |      |      | Braids     |      |       |    |     |      |       | 10   | .6   | 1.8  |
| (30V 60°C) |             | CEC: |      |       |       |      | .089"   |      |      | 97% Shield |      |       |    |     |      |       | 50   | 1.3  | 4.3  |
|            |             | CMX  |      |       |       |      | SCC     |      |      | Coverage   |      |       |    |     |      |       | 100  | 1.9  | 6.2  |
|            |             |      |      |       |       |      | 1.7Ω/M' |      |      | .7Ω/M'     |      |       |    |     |      |       | 200  | 2.7  | 8.9  |
|            |             |      |      |       |       |      | 5.6Ω/km |      |      | 2.3Ω/km    |      |       |    |     |      |       | 400  | 4.1  | 13.4 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 700  | 6.5  | 21.3 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 900  | 7.6  | 24.9 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 1000 | 8.0  | 26.2 |
|            |             |      |      |       |       |      |         |      |      |            |      |       |    |     |      |       | 4000 | 20.0 | 65.6 |

M17/164-00001 (RG-214/U). Non-SWR swept version of RG-214.

BC = Bare Copper • DCR = DC Resistance • SCC= Silver-coated Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†Spools may contain more than one piece. Length may vary ±10% from length shown.



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**1-800-527-0010**

**MIL-C-17G QPL Cable**

75 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**30 AWG** Stranded (7x38) .012" Silver-coated Copper-covered Steel • Silver-coated Copper Braid Shield**TFE Teflon® Insulation • Tinted Brown FEP Jacket**

|       |              |  |       |       |      |     |                  |      |      |            |      |      |    |       |      |      |      |      |      |
|-------|--------------|--|-------|-------|------|-----|------------------|------|------|------------|------|------|----|-------|------|------|------|------|------|
| 200°C | <b>83264</b> |  | 100†  | 30.5  | 1.2  | .5  | 30 AWG<br>(7x38) | .062 | 1.58 | SCC Braid  | .100 | 2.54 | 75 | 69.5% | 19.5 | 64.0 | 1    | 3.0  | 9.8  |
| VW-1  |              |  | 500†  | 152.4 | 6.0  | 2.7 |                  |      |      | 95% Shield |      |      |    |       |      |      | 10   | 5.3  | 17.4 |
|       |              |  | 1000† | 304.8 | 11.0 | 5.0 | .012"            |      |      | Coverage   |      |      |    |       |      |      | 50   | 8.5  | 27.9 |
|       |              |  |       |       |      |     | SCCCS            |      |      | 8.5Ω/M'    |      |      |    |       |      |      | 100  | 10.0 | 32.8 |
|       |              |  |       |       |      |     | 244.0Ω/M'        |      |      | 28.2Ω/km   |      |      |    |       |      |      | 200  | 12.5 | 41.0 |
|       |              |  |       |       |      |     | 801.0Ω/km        |      |      |            |      |      |    |       |      |      | 400  | 16.0 | 52.5 |
|       |              |  |       |       |      |     |                  |      |      |            |      |      |    |       |      |      | 700  | 19.7 | 64.6 |
|       |              |  |       |       |      |     |                  |      |      |            |      |      |    |       |      |      | 900  | 22.3 | 73.2 |
|       |              |  |       |       |      |     |                  |      |      |            |      |      |    |       |      |      | 1000 | 24.0 | 78.7 |

M17/94-RG179

**23 AWG** Solid .023" Bare Copper-covered Steel • 95% Bare Copper Braid Shield**Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|      |             |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      |      |      |      |
|------|-------------|---------|--------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| 60°C | <b>9204</b> | NEC:    | 500    | 152.4   | 22.0 | 10.0 | 23 AWG    | .146 | 3.71 | BC Braid   | .241 | 6.12 | 75 | 66% | 20.5 | 67.3 | 1    | .6   | 2.0  |
| VW-1 |             | CMH     | U-1000 | U-304.8 | 38.0 | 17.3 | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
|      |             | CEC:    | 1000   | 304.8   | 38.0 | 17.3 | .023"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|      |             | CMH FT1 |        |         |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|      |             |         |        |         |      |      | 47.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|      |             |         |        |         |      |      | 152.4Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|      |             |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |
|      |             |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 11.1 | 36.4 |
|      |             |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |

M17/29-RG59

**18 AWG** Stranded (7x26) .048" Tinned Copper • 97% Bare Copper Braid Shield**Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      |      |     |      |
|------|-------------|---------|------|-------|-------|------|----------|------|------|------------|------|-------|----|-----|------|------|------|-----|------|
| 60°C | <b>9212</b> | NEC:    | 1000 | 304.8 | 105.0 | 47.7 | 18 AWG   | .285 | 7.24 | BC Braid   | .405 | 10.29 | 75 | 66% | 20.5 | 67.3 | 1    | .2  | .6   |
| VW-1 |             | CMH     |      |       |       |      | (7x26)   |      |      | 97% Shield |      |       |    |     |      |      | 10   | .7  | 2.2  |
|      |             | CEC:    |      |       |       |      | .048"    |      |      | Coverage   |      |       |    |     |      |      | 50   | 1.3 | 4.3  |
|      |             | CMH FT1 |      |       |       |      | TC       |      |      | 1.2Ω/M'    |      |       |    |     |      |      | 100  | 2.0 | 6.6  |
|      |             |         |      |       |       |      | 6.1Ω/M'  |      |      | 3.9Ω/km    |      |       |    |     |      |      | 200  | 2.9 | 9.5  |
|      |             |         |      |       |       |      | 20.0Ω/km |      |      |            |      |       |    |     |      |      | 400  | 4.2 | 13.8 |
|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 700  | 5.8 | 19.0 |
|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 900  | 6.9 | 22.6 |
|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 1000 | 7.2 | 23.6 |

M17/6-RG11

**18 AWG** Stranded (7x26) .048" Tinned Copper • Two Bare Copper Braid Shield (95% Shield Coverage)**Polyethylene Insulation • Black Non-contaminating PVC Jacket**

|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      |      |     |      |
|------|-------------|---------|------|-------|-------|------|----------|------|------|------------|------|-------|----|-----|------|------|------|-----|------|
| 60°C | <b>9850</b> | NEC:    | 1000 | 304.8 | 131.0 | 59.5 | 18 AWG   | .285 | 7.24 | (2) BC     | .425 | 10.80 | 75 | 66% | 20.5 | 67.3 | 1    | .2  | .6   |
| VW-1 |             | CMH     |      |       |       |      | (7x26)   |      |      | Braids     |      |       |    |     |      |      | 10   | .7  | 2.2  |
|      |             | CEC:    |      |       |       |      | .048"    |      |      | 95% Shield |      |       |    |     |      |      | 50   | 1.3 | 4.3  |
|      |             | CMH FT1 |      |       |       |      | TC       |      |      | Coverage   |      |       |    |     |      |      | 100  | 2.0 | 6.6  |
|      |             |         |      |       |       |      | 6.1Ω/M'  |      |      | .8Ω/M'     |      |       |    |     |      |      | 200  | 2.9 | 9.5  |
|      |             |         |      |       |       |      | 20.0Ω/km |      |      | 2.6Ω/km    |      |       |    |     |      |      | 400  | 4.2 | 13.8 |
|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 700  | 5.8 | 19.0 |
|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 900  | 6.8 | 22.3 |
|      |             |         |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 1000 | 7.1 | 23.3 |

M17/77-RG216

BC = Bare Copper BCCS = Bare Copper-covered Steel • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

† Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

**MIL-C-17G QPL Cable**

93 Ohm, 95 Ohm and 125 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>( $\Omega$ ) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                           |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**93 Ohm • 22 AWG** Solid .025" Bare Copper-covered Steel • 95% Bare Copper Braid Shield

| Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket |             |                            |      |       |      |      |                                                                               |      |      |                                                                            |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-------------------------------------------------------------------------|-------------|----------------------------|------|-------|------|------|-------------------------------------------------------------------------------|------|------|----------------------------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| UL AWM<br>Style 1354<br>(30V 60°C)                                      | <b>9862</b> | NEC:<br>CMX<br>CEC:<br>CMX | 1000 | 304.8 | 34.0 | 15.5 | 22 AWG<br>(solid)<br>.025"<br>BCCS<br>41.2 $\Omega$ /M'<br>135.1 $\Omega$ /km | .146 | 3.71 | BC Braid<br>95% Shield<br>Coverage<br>2.9 $\Omega$ /M'<br>9.5 $\Omega$ /km | .242 | 6.15 | 93 | 84% | 13.5 | 44.3 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.9<br>1.9<br>2.7<br>3.8<br>5.3<br>7.3<br>8.2<br>8.7 | .8<br>2.8<br>6.2<br>8.9<br>12.5<br>17.4<br>23.9<br>26.9<br>28.5 |

M17/30-RG62

**93 Ohm • 22 AWG** Solid .025" Bare Copper-covered Steel • BC Outer Braid/TC Inner Braid (95% Shield Coverage)

| Semi-solid Polyethylene Insulation • Black Polyethylene Jacket |             |  |      |       |      |      |                                                                               |      |      |                                                                                                              |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|----------------------------------------------------------------|-------------|--|------|-------|------|------|-------------------------------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 85°C                                                           | <b>9169</b> |  | 1000 | 304.8 | 46.0 | 20.9 | 22 AWG<br>(solid)<br>.025"<br>BCCS<br>41.2 $\Omega$ /M'<br>135.1 $\Omega$ /km | .146 | 3.71 | (2) Braids<br>Inner:<br>BC<br>Outer:<br>TC<br>95% Shield<br>Coverage<br>1.5 $\Omega$ /M'<br>4.9 $\Omega$ /km | .245 | 6.22 | 93 | 84% | 13.5 | 44.3 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.9<br>1.9<br>2.7<br>3.8<br>5.3<br>7.3<br>8.2<br>8.7 | .8<br>2.8<br>6.2<br>8.9<br>12.5<br>17.4<br>23.9<br>26.9<br>28.5 |

M17/90-RG71

**95 Ohm • 30 AWG** Stranded (7x38) .012" Silver-coated Copper-covered Steel • Silver-coated Copper Braid Shield

| TFE Teflon® Insulation • Tinted Brown FEP Jacket |              |  |       |       |      |     |                                                                                |      |      |                                                                              |      |      |    |       |      |      |                                                          |                                                                 |                                                                     |
|--------------------------------------------------|--------------|--|-------|-------|------|-----|--------------------------------------------------------------------------------|------|------|------------------------------------------------------------------------------|------|------|----|-------|------|------|----------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------|
| 200°C<br>VW-1                                    | <b>83266</b> |  | 1000† | 304.8 | 20.0 | 9.1 | 30 AWG<br>(7x38)<br>.012"<br>SCCCS<br>244.0 $\Omega$ /M'<br>801.0 $\Omega$ /km | .102 | 2.60 | SCC Braid<br>91% Shield<br>Coverage<br>6.5 $\Omega$ /M'<br>21.3 $\Omega$ /km | .141 | 3.58 | 95 | 69.5% | 15.0 | 49.2 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | 2.4<br>3.3<br>4.6<br>5.7<br>7.6<br>10.7<br>14.9<br>15.9<br>17.0 | 7.9<br>10.8<br>15.1<br>18.7<br>24.9<br>35.1<br>48.9<br>52.2<br>55.8 |

M17/95-RG180

**125 Ohm • 22 AWG** Solid .025" Bare Copper-covered Steel • 97% Bare Copper Braid Shield

| Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket |             |                                |      |       |      |      |                                                                               |      |      |                                                                            |      |       |     |     |     |      |                                                          |                                                           |                                                                |
|-------------------------------------------------------------------------|-------------|--------------------------------|------|-------|------|------|-------------------------------------------------------------------------------|------|------|----------------------------------------------------------------------------|------|-------|-----|-----|-----|------|----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| 60°C                                                                    | <b>9857</b> | NEC:<br>CMH<br>CEC:<br>CMH FT1 | 1000 | 304.8 | 87.0 | 39.5 | 22 AWG<br>(solid)<br>.025"<br>BCCS<br>41.2 $\Omega$ /M'<br>135.1 $\Omega$ /km | .285 | 7.24 | BC Braid<br>97% Shield<br>Coverage<br>1.2 $\Omega$ /M'<br>3.9 $\Omega$ /km | .405 | 10.29 | 125 | 84% | 9.7 | 31.8 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .2<br>.5<br>1.1<br>1.5<br>2.3<br>3.4<br>4.6<br>5.5<br>5.8 | .6<br>1.7<br>3.6<br>4.9<br>7.5<br>11.2<br>15.1<br>18.0<br>19.0 |

M17/31-RG63

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

Teflon is a DuPont trademark.



By:

INTERSTATE WIRE  
INCORPORATED

Belden Incorporated Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

**MIL-C-17G QPL Cable**

Twinax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                              |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**Twinax • 24 AWG** Stranded (19x.005") .024" Silver-coated High-Strength Copper Alloy • 93% SC High Strength CA Braid Shield

| <b>TFE Teflon® Insulation • Blue PFA Jacket</b> (Color Code: White, Blue) |              |  |       |       |      |     |                      |      |      |                        |      |      |    |     |      |      |      |      |       |
|---------------------------------------------------------------------------|--------------|--|-------|-------|------|-----|----------------------|------|------|------------------------|------|------|----|-----|------|------|------|------|-------|
| 200°C                                                                     | <b>81553</b> |  | 500†  | 152.4 | 9.0  | 4.1 | 24 AWG<br>(19x.005") | .084 | 2.13 | SC High<br>Strength    | .129 | 3.28 | 77 | 70% | 19.0 | 62.4 | 1    | 1.2  | 3.9   |
|                                                                           |              |  | 1000† | 304.8 | 17.0 | 7.7 | .024"                |      |      | CA Braid               |      |      |    |     |      |      | 10   | 4.0  | 14.4  |
|                                                                           |              |  |       |       |      |     | SC High<br>Strength  |      |      | 93% Shield<br>Coverage |      |      |    |     |      |      | 50   | 9.2  | 30.2  |
|                                                                           |              |  |       |       |      |     | CA                   |      |      | 7.4 $\Omega$ /M'       |      |      |    |     |      |      | 100  | 13.0 | 42.7  |
|                                                                           |              |  |       |       |      |     | 24.5 $\Omega$ /M'    |      |      | 24.3 $\Omega$ /km      |      |      |    |     |      |      | 200  | 18.4 | 60.4  |
|                                                                           |              |  |       |       |      |     | 80.4 $\Omega$ /km    |      |      |                        |      |      |    |     |      |      | 400  | 26.1 | 85.6  |
|                                                                           |              |  |       |       |      |     |                      |      |      |                        |      |      |    |     |      |      | 700  | 34.6 | 113.5 |
|                                                                           |              |  |       |       |      |     |                      |      |      |                        |      |      |    |     |      |      | 900  | 39.3 | 128.9 |
|                                                                           |              |  |       |       |      |     |                      |      |      |                        |      |      |    |     |      |      | 1000 | 41.4 | 135.8 |

M17/176-00002

**Twinax • 20 AWG** Stranded (7x28) .038" Tinned Copper • 85% Tinned Copper Braid Shield

| <b>Polyethylene Insulation • Black Non-contaminating PVC Jacket</b> (One conductor has bare strand for ID) |             |  |      |       |      |      |                   |      |      |                        |      |      |    |     |      |      |     |      |      |
|------------------------------------------------------------------------------------------------------------|-------------|--|------|-------|------|------|-------------------|------|------|------------------------|------|------|----|-----|------|------|-----|------|------|
| 85°C                                                                                                       | <b>9859</b> |  | 1000 | 304.8 | 35.0 | 15.9 | 20 AWG<br>(7x28)  | .158 | 4.01 | TC Braid               | .235 | 5.97 | 78 | 66% | 19.7 | 64.6 | 1   | .7   | 2.3  |
|                                                                                                            |             |  |      |       |      |      | .038"             |      |      | 85% Shield<br>Coverage |      |      |    |     |      |      | 10  | 2.3  | 7.5  |
|                                                                                                            |             |  |      |       |      |      | TC                |      |      | 5.3 $\Omega$ /M'       |      |      |    |     |      |      | 50  | 5.2  | 17.1 |
|                                                                                                            |             |  |      |       |      |      | 9.5 $\Omega$ /M'  |      |      | 17.3 $\Omega$ /km      |      |      |    |     |      |      | 100 | 7.5  | 24.6 |
|                                                                                                            |             |  |      |       |      |      | 31.2 $\Omega$ /km |      |      |                        |      |      |    |     |      |      | 200 | 11.0 | 36.1 |
|                                                                                                            |             |  |      |       |      |      |                   |      |      |                        |      |      |    |     |      |      | 400 | 16.0 | 52.5 |

M17/45-RG108

CA = Copper Alloy • DCR = DC Resistance • PFA = Perfluoroalkoxy • SC = Silver-coated • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.†Spools may contain more than one piece. Length may vary  $\pm 10\%$  from length shown.

Teflon is a DuPont trademark.

# Special Audio, Communication and Instrumentation Cable

Miniature Instrumentation and Low Triboelectric Noise Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**Miniature • 28 AWG Solid .013" Tinned Copper • 90% Bare Copper Braid Shield**

| Polypropylene Insulation • Black PVC Jacket                                                       |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       |      |      |       |
|---------------------------------------------------------------------------------------------------|------|--------------------------------|-----|------|----|----|----------------------------|------|-----|------------------------------------------------------------------|------|------|----|-----|------|-------|------|------|-------|
| 105°C<br>VW-1<br> | 8700 | NEC:<br>CMH<br>CEC:<br>CMH FT1 | 250 | 76.2 | .8 | .3 | 28 AWG<br>(solid)<br>.013" | .023 | .58 | BC Braid<br>90% Shield<br>Coverage<br>TC<br>28.7Ω/M'<br>94.2Ω/km | .054 | 1.37 | 32 | 66% | 55.2 | 181.1 | 1    | 2.5  | 8.2   |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 10   | 7.7  | 25.3  |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 50   | 17.2 | 56.4  |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 100  | 24.5 | 80.4  |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 200  | 34.8 | 114.2 |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 400  | 50.0 | 164.0 |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 700  | 66.0 | 216.0 |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 900  | 75.0 | 246.0 |
|                                                                                                   |      |                                |     |      |    |    |                            |      |     |                                                                  |      |      |    |     |      |       | 1000 | 79.0 | 259.2 |

**Low Noise • RG-174/U Type • 26 AWG Stranded (7x34) .019" Bare Copper-covered Steel • 90% Tinned Copper Braid Shield**

| Polyethylene Insulation • Conductive Layer • Black PVC Jacket                            |      |  |      |       |     |     |                           |      |      |                                                                    |      |      |    |     |    |     |   |   |   |
|------------------------------------------------------------------------------------------|------|--|------|-------|-----|-----|---------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|----|-----|---|---|---|
| 60°C<br> | 9239 |  | 100  | 30.5  | 1.0 | .5  | 26 AWG<br>(7x34)<br>.019" | .044 | 1.12 | TC Braid<br>90% Shield<br>Coverage<br>BCCS<br>14.0Ω/M'<br>45.9Ω/km | .101 | 2.57 | 50 | 62% | 38 | 125 | — | — | — |
|                                                                                          |      |  | 500  | 152.4 | 5.0 | 2.3 |                           |      |      |                                                                    |      |      |    |     |    |     |   |   |   |
|                                                                                          |      |  | 1000 | 304.8 | 8.0 | 3.6 |                           |      |      |                                                                    |      |      |    |     |    |     |   |   |   |
|                                                                                          |      |  |      |       |     |     |                           |      |      |                                                                    |      |      |    |     |    |     |   |   |   |

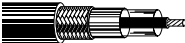
5mV peak-to-peak max.  
Not recommended for RF use.

**Low Noise • RG-59/U Type • 22 AWG Solid .025" Bare Copper-covered Steel • 93% Bare Copper Braid Shield**

| Polyethylene Insulation • Conductive Layer • Black PVC Jacket                                      |      |  |       |         |      |      |                            |      |      |                                                                  |      |      |    |     |    |    |   |   |   |
|----------------------------------------------------------------------------------------------------|------|--|-------|---------|------|------|----------------------------|------|------|------------------------------------------------------------------|------|------|----|-----|----|----|---|---|---|
| 75°C<br>VW-1<br> | 9224 |  | U-500 | U-152.4 | 19.5 | 8.9  | 22 AWG<br>(solid)<br>.025" | .146 | 3.71 | BC Braid<br>93% Shield<br>Coverage<br>BCCS<br>2.5Ω/M'<br>8.2Ω/km | .242 | 6.15 | 75 | 65% | 22 | 72 | — | — | — |
|                                                                                                    |      |  | 1000  | 304.8   | 38.0 | 17.3 |                            |      |      |                                                                  |      |      |    |     |    |    |   |   |   |
|                                                                                                    |      |  |       |         |      |      |                            |      |      |                                                                  |      |      |    |     |    |    |   |   |   |
|                                                                                                    |      |  |       |         |      |      |                            |      |      |                                                                  |      |      |    |     |    |    |   |   |   |

5mV peak-to-peak max.  
Not recommended for RF use.

**Low Noise • RG-58/U Type • 22 AWG Stranded (7x30) .030" Tinned Copper • Duobond® II + 95% TC Braid (100% Shield Coverage)**

| Polyethylene Insulation • Black PVC Jacket                                                         |      |  |      |       |      |      |                           |      |      |                                                                                    |      |      |    |     |    |     |   |   |   |
|----------------------------------------------------------------------------------------------------|------|--|------|-------|------|------|---------------------------|------|------|------------------------------------------------------------------------------------|------|------|----|-----|----|-----|---|---|---|
| 80°C<br>VW-1<br> | 9223 |  | 100  | 30.5  | 3.4  | 1.5  | 22 AWG<br>(7x30)<br>.030" | .112 | 2.84 | Duobond II<br>+ 95%<br>TC Braid<br>100% Shield<br>Coverage<br>10.8Ω/M'<br>35.4Ω/km | .195 | 4.95 | 50 | 56% | 37 | 122 | — | — | — |
|                                                                                                    |      |  | 500  | 152.4 | 15.5 | 7.0  |                           |      |      |                                                                                    |      |      |    |     |    |     |   |   |   |
|                                                                                                    |      |  | 1000 | 304.8 | 26.0 | 11.8 |                           |      |      |                                                                                    |      |      |    |     |    |     |   |   |   |
|                                                                                                    |      |  |      |       |      |      |                           |      |      |                                                                                    |      |      |    |     |    |     |   |   |   |

8mV peak-to-peak max.  
Not recommended for RF use.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1.**



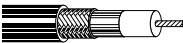
## Computer and Instrumentation Cable

## 50 Ohm Ethernet Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**Thin Ethernet • 20 AWG** Stranded (19x32) .037" Tinned Copper • Duobond® II + 93% Tinned Copper Braid Shield

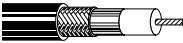
| Foam Polyethylene Insulation • Gray PVC Jacket |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|------------------------------------------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                         | 9907 | NEC: | 500    | 152.4   | 12.5 | 5.7  | 20 AWG   | .102 | 2.59 | Duobond II | .185 | 4.70 | 50 | 80% | 25.4 | 83.3 | 1    | .4   | 1.4  |
| Style 1354                                     |      | CM   | U-1000 | U-304.8 | 25.0 | 11.4 | (19x32)  |      |      | + 93%      |      |      |    |     |      |      | 10   | 1.3  | 4.3  |
| (30V 60°C)                                     |      | CL2  | 1000   | 304.8   | 25.0 | 11.4 | .037"    |      |      | TC Braid   |      |      |    |     |      |      | 50   | 2.9  | 9.5  |
|                                                |      | CEC: | 1640   | 500.0   | 39.4 | 17.9 | TC       |      |      | 5.8Ω/M'    |      |      |    |     |      |      | 100  | 4.2  | 13.8 |
|                                                |      | CM   | U-2500 | U-762.0 | 60.0 | 27.3 | 8.8Ω/M'  |      |      | 19.0Ω/km   |      |      |    |     |      |      | 200  | 6.1  | 20.0 |
|                                                |      |      | 2500   | 762.0   | 62.5 | 28.4 | 28.9Ω/km |      |      |            |      |      |    |     |      |      | 400  | 8.9  | 29.2 |
|                                                |      |      | 3280   | 1000.0  | 82.0 | 37.3 |          |      |      |            |      |      |    |     |      |      | 700  | 12.1 | 39.7 |
|                                                |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 13.9 | 45.6 |
|                                                |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 14.8 | 48.6 |



DEC Part No. 17-01248-00

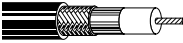
For Plenum versions of 9907, see 89907 or 82907.

DEC Part No. 17-01248-00

| Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket |                                                                                   |         |       |       |       |      |         |          |      |          |            |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-------|-------|-------|------|---------|----------|------|----------|------------|------|------|----|-----|------|------|------|------|------|
| 150°C                                                      |  | 89907   | NEC:  | 500†  | 152.4 | 13.0 | 5.9     | 20 AWG   | .095 | 2.41     | Duobond II | .160 | 4.06 | 50 | 80% | 26.0 | 85.3 | 1    | .4   | 1.4  |
|                                                            |                                                                                   | CMP     | 1000  | 304.8 | 24.0  | 10.9 | (19x32) |          |      | + 93%    |            |      |      |    |     |      |      | 10   | 1.3  | 4.3  |
|                                                            |                                                                                   | CL2P    | 2500† | 762.0 | 60.0  | 27.3 | .037"   |          |      | TC Braid |            |      |      |    |     |      |      | 50   | 2.9  | 9.5  |
|                                                            |                                                                                   | CEC:    |       |       |       |      |         | TC       |      |          | 5.8Ω/M'    |      |      |    |     |      |      | 100  | 4.2  | 13.7 |
|                                                            |                                                                                   | CMP FT6 |       |       |       |      |         | 8.8Ω/M'  |      |          | 19.0Ω/km   |      |      |    |     |      |      | 200  | 6.1  | 20.0 |
|                                                            |                                                                                   |         |       |       |       |      |         | 28.9Ω/km |      |          |            |      |      |    |     |      |      | 400  | 9.2  | 30.2 |
|                                                            |                                                                                   |         |       |       |       |      |         |          |      |          |            |      |      |    |     |      |      | 700  | 12.9 | 42.3 |
| RG-58/U Type                                               |                                                                                   |         |       |       |       |      |         |          |      |          |            |      |      |    |     |      |      | 900  | 15.0 | 49.2 |
| DEC Part No. 17-01246-00                                   |                                                                                   |         |       |       |       |      |         |          |      |          |            |      |      |    |     |      |      | 1000 | 16.0 | 52.5 |

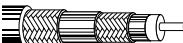
RG-58/U Type

DEC Part No. 17-01246-00

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket                         |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------|-------|---------|---------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                                              | 82907 | NEC:    | 500†    | 152.4   | 12.5 | 5.7  | 20 AWG   | .095 | 2.41 | Duobond II | .160 | 4.06 | 50 | 80% | 26.0 | 85.3 | 1    | .4   | 1.4  |
|  |       | CMP     | U-1000† | U-304.8 | 23.0 | 10.5 | (19x32)  |      |      | + 93%      |      |      |    |     |      |      | 10   | 1.3  | 4.3  |
|                                                                                   |       | CL2P    | 1000†   | 304.8   | 24.0 | 10.9 | .037"    |      |      | TC Braid   |      |      |    |     |      |      | 50   | 2.9  | 9.5  |
|                                                                                   |       | CEC:    | 2500†   | 762.0   | 57.5 | 26.1 | TC       |      |      | 5.8Ω/M'    |      |      |    |     |      |      | 100  | 4.2  | 13.7 |
|                                                                                   |       | CMP FT6 |         |         |      |      | 8.8Ω/M'  |      |      | 19.0Ω/km   |      |      |    |     |      |      | 200  | 6.1  | 20.0 |
|                                                                                   |       |         |         |         |      |      | 28.9Ω/km |      |      |            |      |      |    |     |      |      | 400  | 9.2  | 30.2 |
|                                                                                   |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 12.9 | 42.3 |
|                                                                                   |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 15.0 | 49.2 |
|                                                                                   |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 16.0 | 52.5 |
| RG-58/U Type                                                                      |       |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |

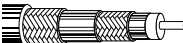
RG-58/U Type

**Thick Ethernet • 12 AWG** Solid .086" Bare Copper • Duobond IV\* Quad Shield

| Foam Polyethylene Insulation • Yellow PVC Jacket                                    |      |      |      |       |       |      |         |      |      |                                        |         |       |    |     |      |      |      |     |      |     |
|-------------------------------------------------------------------------------------|------|------|------|-------|-------|------|---------|------|------|----------------------------------------|---------|-------|----|-----|------|------|------|-----|------|-----|
| UL AWM                                                                              | 9880 | NEC: | 500  | 152.4 | 66.0  | 30.0 | 12 AWG  | .243 | 6.17 | Duobond IV                             | .405    | 10.29 | 50 | 78% | 26.0 | 85.0 | 1    | .2  | .6   |     |
| Style 1478                                                                          |      | CL2  | 1000 | 304.8 | 131.0 | 59.5 | (solid) |      |      | (Duobond II                            |         |       |    |     |      |      | 5    | .4  | 1.2  |     |
| (30V 60°C)                                                                          |      | CM   | 1640 | 500.0 | 219.0 | 99.9 | .086"   |      |      | + 94% TC Braid                         |         |       |    |     |      |      | 10   | .5  | 1.7  |     |
|  |      | CEC: |      |       |       |      | BC      |      |      | + Duofoil®                             |         |       |    |     |      |      | 50   | 1.2 | 3.9  |     |
|                                                                                     |      |      |      |       |       |      | 1.4Ω/M' |      |      | + 90% TC                               |         |       |    |     |      |      |      | 100 | 1.7  | 5.6 |
|                                                                                     |      | CM   |      |       |       |      | 4.7Ω/km |      |      | Braid)                                 |         |       |    |     |      |      |      | 200 | 2.6  | 8.4 |
|                                                                                     |      |      |      |       |       |      |         |      |      |                                        | 1.5Ω/M' |       |    |     |      |      |      |     | 400  | 3.9 |
|                                                                                     |      |      |      |       |       |      |         |      |      |                                        |         |       |    |     |      |      | 700  | 5.5 | 18.1 |     |
|                                                                                     |      |      |      |       |       |      |         |      |      |                                        |         |       |    |     |      |      | 900  | 6.5 | 21.3 |     |
|                                                                                     |      |      |      |       |       |      |         |      |      |                                        |         |       |    |     |      |      | 1000 | 6.9 | 22.6 |     |
| DEC Part No. 17-00451-00                                                            |      |      |      |       |       |      |         |      |      | For Plenum version of 9880, see 89880. |         |       |    |     |      |      |      |     |      |     |
| Ring-band stripes marked every 2.5 meters to aid users in tap placement.            |      |      |      |       |       |      |         |      |      |                                        |         |       |    |     |      |      |      |     |      |     |

DEC Part No. 17-00451-00

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

| Plenum • Foam FEP Insulation • Orange Fluorocopolymer Jacket                        |       |         |       |       |       |       |         |      |      |                |      |      |    |     |      |      |      |     |      |
|-------------------------------------------------------------------------------------|-------|---------|-------|-------|-------|-------|---------|------|------|----------------|------|------|----|-----|------|------|------|-----|------|
| 150°C                                                                               | 89880 | NEC:    | 500†  | 152.4 | 67.0  | 30.5  | 12 AWG  | .245 | 6.22 | Duobond IV     | .375 | 9.53 | 50 | 78% | 26.0 | 85.0 | 1    | .2  | .6   |
|  |       | CL2P    | 1000† | 304.8 | 134.0 | 60.9  | (solid) |      |      | (Duobond II    |      |      |    |     |      |      | 5    | .4  | 1.2  |
|                                                                                     |       | CMP     | 1640† | 500.0 | 224.7 | 102.1 | .086"   |      |      | + 90% TC Braid |      |      |    |     |      |      | 10   | .5  | 1.7  |
|                                                                                     |       | CEC:    |       |       |       |       | BC      |      |      | + Duofoil      |      |      |    |     |      |      | 50   | 1.2 | 3.8  |
|                                                                                     |       | CMP FT6 |       |       |       |       | 1.4Ω/M' |      |      | + 90% TC       |      |      |    |     |      |      | 100  | 1.7 | 5.4  |
|                                                                                     |       |         |       |       |       |       | 4.7Ω/km |      |      | Braid)         |      |      |    |     |      |      | 200  | 2.5 | 8.0  |
|                                                                                     |       |         |       |       |       |       |         |      |      | 1.5Ω/M'        |      |      |    |     |      |      | 400  | 3.8 | 12.5 |
|                                                                                     |       |         |       |       |       |       |         |      |      | 5.0Ω/km        |      |      |    |     |      |      | 700  | 5.6 | 18.4 |
| DEC Part No. 17-00324-00                                                            |       |         |       |       |       |       |         |      |      |                |      |      |    |     |      |      | 900  | 6.8 | 22.3 |
| Ring-band stripes marked every 2.5 meters to aid users in tap placement.            |       |         |       |       |       |       |         |      |      |                |      |      |    |     |      |      | 1000 | 7.2 | 23.6 |
| Suitable for Outdoor and Direct Burial applications.                                |       |         |       |       |       |       |         |      |      |                |      |      |    |     |      |      |      |     |      |

DEC Part No. 17-00324-00

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1.**

For cable manufactured to latest government revision or other MIL-SPEC requirements, please contact your nearest Belden Regional Sales Office.

\* Duobond IV = Duobond II + 94% tinned copper braid + Duofoil + 90% tinned copper braid.

(Plenum version is Duobond II + 90% tinned copper braid + Duofoil + 90% tinned copper braid.)

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

## Computer and Instrumentation Cable

## 75 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|------------------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                              |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

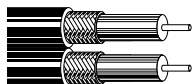
**75 Ohm • 30 AWG Stranded (7x38) .012" Silver-coated Copper-covered Steel • 95% Silver-coated Copper Braid Shield****TFE Teflon® Insulation • White TFE Tape Jacket**

|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      |      |      |      |
|---------------|--------------|--|-------|-------|------|-----|---------------------------|------|------|------------------------------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 200°C<br>VW-1 | <b>83267</b> |  | 100†  | 30.5  | 1.9  | .9  | 30 AWG<br>(7x38)<br>.012" | .063 | 1.60 | SCC Braid<br>95% Shield<br>Coverage<br>SCCCS<br>244.0 $\Omega$ /M'<br>801.0 $\Omega$ /km | .103 | 2.62 | 75 | 70% | 19.5 | 64.0 | 1    | 3.0  | 9.8  |
|               |              |  | 1000† | 304.8 | 11.0 | 5.0 |                           |      |      |                                                                                          |      |      |    |     |      |      | 10   | 5.3  | 17.4 |
|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      | 50   | 8.5  | 27.9 |
|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      | 100  | 10.0 | 32.8 |
|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      | 200  | 12.5 | 41.0 |
|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      | 400  | 16.0 | 52.5 |
|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      | 700  | 19.7 | 64.6 |
|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      | 900  | 22.3 | 73.2 |
|               |              |  |       |       |      |     |                           |      |      |                                                                                          |      |      |    |     |      |      | 1000 | 24.0 | 78.7 |

RG-187A/U Type • MIL-C-17D

**75 Ohm • Dual RG-59/U Type • 23 AWG Solid .023" Bare Copper-covered Steel • Bare Copper Braid Shield****Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket**

|                                      |             |      |      |       |       |      |                            |      |      |                                                                                    |      |       |    |     |      |      |      |      |      |
|--------------------------------------|-------------|------|------|-------|-------|------|----------------------------|------|------|------------------------------------------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| UL AWM<br>Style 20063<br>(300V 80°C) | <b>9555</b> | NEC: | 500  | 152.4 | 41.0  | 19.6 | 23 AWG<br>(solid)<br>.023" | .146 | 3.71 | BC Braid<br>95% Shield<br>Coverage<br>BCCS<br>2.6 $\Omega$ /M'<br>8.5 $\Omega$ /km | .238 | 6.05  | 75 | 66% | 20.5 | 67.3 | 1    | .6   | 2.0  |
|                                      |             | CM   | 1000 | 304.8 | 83.0  | 37.7 |                            |      |      |                                                                                    | x    | x     |    |     |      |      | 10   | 1.1  | 3.6  |
|                                      |             | CEC: | 2000 | 609.6 | 162.0 | 73.6 |                            |      |      |                                                                                    | .478 | 12.14 |    |     |      |      | 50   | 2.4  | 7.9  |
|                                      |             | CM   |      |       |       |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 100  | 3.4  | 11.2 |
|                                      |             |      |      |       |       |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 200  | 4.9  | 16.1 |
|                                      |             |      |      |       |       |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 400  | 7.0  | 23.0 |
|                                      |             |      |      |       |       |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 700  | 9.7  | 31.8 |
|                                      |             |      |      |       |       |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 900  | 11.1 | 36.4 |
|                                      |             |      |      |       |       |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 1000 | 12.0 | 39.4 |



For Plenum version of 9555, see 89555.

**Plenum • FEP Insulation • Clear FEP Jacket**

|       |              |         |        |       |      |      |                            |      |      |                                                                                    |      |       |    |     |      |      |      |      |      |
|-------|--------------|---------|--------|-------|------|------|----------------------------|------|------|------------------------------------------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| 200°C | <b>89555</b> | NEC:    | 500††  | 152.4 | 46.5 | 21.1 | 23 AWG<br>(solid)<br>.023" | .134 | 3.40 | BC Braid<br>97% Shield<br>Coverage<br>BCCS<br>2.6 $\Omega$ /M'<br>8.5 $\Omega$ /km | .212 | 5.38  | 75 | 70% | 19.5 | 64.0 | 1    | .5   | 1.6  |
|       |              | CMP     | 1000†† | 304.8 | 90.0 | 40.9 |                            |      |      |                                                                                    | x    | x     |    |     |      |      | 10   | 1.1  | 3.6  |
|       |              | CEC:    |        |       |      |      |                            |      |      |                                                                                    | .424 | 10.77 |    |     |      |      | 50   | 2.5  | 8.2  |
|       |              | CMP FT6 |        |       |      |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 100  | 3.5  | 11.5 |
|       |              |         |        |       |      |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 200  | 5.1  | 16.7 |
|       |              |         |        |       |      |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 400  | 7.5  | 24.6 |
|       |              |         |        |       |      |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 700  | 10.4 | 34.1 |
|       |              |         |        |       |      |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 900  | 12.0 | 39.4 |
|       |              |         |        |       |      |      |                            |      |      |                                                                                    |      |       |    |     |      |      | 1000 | 12.7 | 41.7 |

Suitable for Outdoor and Direct Burial applications.

**75 Ohm • RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel • Duobond® IV\* Quad Shield****Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket**

|  |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      |     |      |       |
|--|--------------|---------|--------|-------|------|------|----------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|-----|------|-------|
|  | <b>3131A</b> | NEC:    | 1000†† | 304.8 | 41.0 | 18.6 | 18 AWG<br>(solid)<br>.040"             | .180 | 4.57 | Duobond IV<br>Quad Shield<br>3.6 $\Omega$ /M'<br>11.8 $\Omega$ /km | .298 | 7.57 | 75 | 82% | 16.2 | 53.1 | 1   | .35  | 1.15  |
|  |              | CL2R,   | 2500   | 762.2 | 97.5 | 44.3 |                                        |      |      |                                                                    |      |      |    |     |      |      | 2   | .38  | 1.25  |
|  |              | CMR     |        |       |      |      | Bare Copper                            |      |      |                                                                    |      |      |    |     |      |      | 5   | .45  | 1.48  |
|  |              | CEC:    |        |       |      |      | Covered                                |      |      |                                                                    |      |      |    |     |      |      | 10  | .59  | 1.94  |
|  |              | CMR FT4 |        |       |      |      | Steel                                  |      |      |                                                                    |      |      |    |     |      |      | 20  | .86  | 2.82  |
|  |              |         |        |       |      |      | 28.0 $\Omega$ /M'<br>91.8 $\Omega$ /km |      |      |                                                                    |      |      |    |     |      |      | 50  | 1.37 | 4.49  |
|  |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 100 | 1.97 | 6.46  |
|  |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 200 | 2.82 | 9.25  |
|  |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 300 | 3.48 | 11.40 |
|  |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 400 | 4.04 | 13.30 |

Sweep tested 5 MHz to 400 MHz.  
CPE jacket optional.**Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket**

|       |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      |     |      |       |
|-------|--------------|---------|--------|-------|------|------|----------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|-----|------|-------|
| 150°C | <b>3132A</b> | NEC:    | 1000†† | 304.8 | 36.0 | 16.4 | 18 AWG<br>(solid)<br>.040"             | .170 | 4.32 | Duobond IV<br>Quad Shield<br>3.6 $\Omega$ /M'<br>11.8 $\Omega$ /km | .274 | 6.96 | 75 | 82% | 16.3 | 53.5 | 1   | .36  | 1.18  |
|       |              | CMP,    |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 2   | .38  | 1.25  |
|       |              | PLTC    |        |       |      |      | Bare Copper                            |      |      |                                                                    |      |      |    |     |      |      | 5   | .50  | 1.64  |
|       |              | CEC:    |        |       |      |      | Covered                                |      |      |                                                                    |      |      |    |     |      |      | 10  | .65  | 2.13  |
|       |              | CMP FT6 |        |       |      |      | Steel                                  |      |      |                                                                    |      |      |    |     |      |      | 20  | .95  | 3.12  |
|       |              |         |        |       |      |      | 28.0 $\Omega$ /M'<br>19.8 $\Omega$ /km |      |      |                                                                    |      |      |    |     |      |      | 50  | 1.50 | 4.92  |
|       |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 100 | 2.12 | 6.96  |
|       |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 200 | 2.99 | 9.81  |
|       |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 300 | 3.66 | 12.00 |
|       |              |         |        |       |      |      |                                        |      |      |                                                                    |      |      |    |     |      |      | 400 | 4.23 | 13.90 |

Suitable for Outdoor and Direct Burial applications.

**75 Ohm • RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel • Duobond IV\* Quad Shield****Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket**

|  |              |         |        |       |       |      |                                        |      |      |                                                                   |      |       |    |     |      |      |     |      |      |
|--|--------------|---------|--------|-------|-------|------|----------------------------------------|------|------|-------------------------------------------------------------------|------|-------|----|-----|------|------|-----|------|------|
|  | <b>3094A</b> | NEC:    | 500††  | 152.4 | 31.0  | 14.1 | 14 AWG<br>(solid)<br>.064"             | .280 | 7.11 | Duobond IV<br>Quad Shield<br>1.8 $\Omega$ /M'<br>5.9 $\Omega$ /km | .407 | 10.34 | 75 | 82% | 16.2 | 53.1 | 1   | .30  | 1.00 |
|  |              | CL2R,   | 1000†† | 304.8 | 62.0  | 28.2 |                                        |      |      |                                                                   |      |       |    |     |      |      | 10  | .60  | 2.00 |
|  |              | CMR     | 2000   | 609.6 | 120.0 | 54.5 |                                        |      |      |                                                                   |      |       |    |     |      |      | 50  | .90  | 3.00 |
|  |              | CEC:    |        |       |       |      | BCCS                                   |      |      |                                                                   |      |       |    |     |      |      | 100 | 1.20 | 3.90 |
|  |              | CMR FT4 |        |       |       |      | 11.0 $\Omega$ /M'<br>36.1 $\Omega$ /km |      |      |                                                                   |      |       |    |     |      |      | 200 | 1.70 | 5.90 |
|  |              |         |        |       |       |      |                                        |      |      |                                                                   |      |       |    |     |      |      | 400 | 2.40 | 7.90 |

Ring-band stripes marked every 2.6 meters to aid users in tap placement.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • SCC = Silver-coated Copper • SCCCS = Silver-coated Copper-covered Steel

Teflon is a DuPont trademark.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.† Spools may contain more than one piece. Length may vary  $\pm 10\%$  from length shown.†† Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  from length shown.

\* Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.



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1-800-527-0010



# Computer and Instrumentation Cable

## 75 Ohm and 93 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|--------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                          | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**75 Ohm • RG-11/U Type • 14 AWG** Solid Bare Copper-covered Steel • Duobond IV\* Quad Shield (continued)

| Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket |       |                                         |        |       |      |      |                                                            |      |      |                                                 |      |      |    |     |      |      |                                    |                                            |                                              |
|------------------------------------------------------------|-------|-----------------------------------------|--------|-------|------|------|------------------------------------------------------------|------|------|-------------------------------------------------|------|------|----|-----|------|------|------------------------------------|--------------------------------------------|----------------------------------------------|
| 150°C                                                      | 3095A | NEC:<br>CMP,<br>PLTC<br>CEC:<br>CMP FT6 | 1000†† | 304.8 | 76.0 | 34.5 | 14 AWG<br>(solid)<br>.064"<br>BCCS<br>11.0Ω/M'<br>36.1Ω/km | .280 | 7.11 | Duobond IV<br>Quad Shield<br>1.8Ω/M'<br>5.9Ω/km | .387 | 9.83 | 75 | 82% | 16.5 | 54.1 | 1<br>10<br>50<br>100<br>200<br>400 | .20<br>.39<br>1.20<br>1.70<br>2.50<br>3.50 | .70<br>1.30<br>3.90<br>5.60<br>8.20<br>11.50 |

Suitable for Outdoor and Direct Burial applications.  
Ring-band stripes marked every 2.6 meters to aid users in tap placement.

Sweep tested 5 MHz to 400 MHz.

**93 Ohm • RG-62B/U Type • 24 AWG** Stranded (7x32) .024" Bare Copper-covered Steel • 95% Bare Copper Braid Shield

| Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket |      |                            |             |                |              |             |                                                            |      |      |                                                          |      |      |    |     |      |      |                                                          |                                                             |                                                                  |
|-------------------------------------------------------------------------|------|----------------------------|-------------|----------------|--------------|-------------|------------------------------------------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|
| UL AWM<br>Style 1354<br>(30V 60°C)                                      | 8255 | NEC:<br>CMX<br>CEC:<br>CMX | 500<br>1000 | 152.4<br>304.8 | 17.5<br>34.0 | 8.0<br>15.5 | 24 AWG<br>(7x32)<br>.024"<br>BCCS<br>59.0Ω/M'<br>193.6Ω/km | .146 | 3.71 | BC Braid<br>95% Shield<br>Coverage<br>2.9Ω/M'<br>9.5Ω/km | .242 | 6.15 | 93 | 84% | 13.5 | 44.3 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.9<br>2.0<br>2.9<br>4.2<br>6.1<br>8.6<br>10.1<br>11.0 | 1.0<br>3.0<br>6.6<br>9.5<br>13.8<br>20.0<br>28.2<br>33.1<br>36.1 |

MIL-C-17D

**93 Ohm • RG-62/U Type • JAN-C-17A • 22 AWG** Solid .025" Bare Copper-covered Steel • 95% Bare Copper Braid Shield

| Semi-solid Polyethylene Insulation • Black PVC Jacket |      |  |                                |                                    |                              |                            |                                                             |      |      |                                                          |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-------------------------------------------------------|------|--|--------------------------------|------------------------------------|------------------------------|----------------------------|-------------------------------------------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 75°C                                                  | 8254 |  | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>304.8<br>304.8 | 18.0<br>18.0<br>36.0<br>35.0 | 8.2<br>8.2<br>16.4<br>15.9 | 22 AWG<br>(solid)<br>.025"<br>BCCS<br>41.2Ω/M'<br>135.1Ω/km | .146 | 3.71 | BC Braid<br>95% Shield<br>Coverage<br>2.9Ω/M'<br>9.5Ω/km | .238 | 6.05 | 93 | 84% | 13.5 | 44.3 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.9<br>1.9<br>2.7<br>3.8<br>5.3<br>7.3<br>8.2<br>8.7 | .8<br>2.8<br>6.2<br>8.9<br>12.5<br>17.4<br>23.9<br>26.9<br>28.5 |

**93 Ohm • RG-62A/U Type • 22 AWG** Solid .025" Bare Copper-covered Steel • 95% Bare Copper Braid Shield

| Semi-solid Polyethylene Insulation • Black High-density Polyethylene Jacket |      |  |                             |                                   |                               |                             |                                                             |      |      |                                                          |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-----------------------------------------------------------------------------|------|--|-----------------------------|-----------------------------------|-------------------------------|-----------------------------|-------------------------------------------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| Flooded Burial<br>80°C                                                      | 9228 |  | 500<br>1000<br>2000<br>5000 | 152.4<br>304.8<br>609.6<br>1524.0 | 16.5<br>33.0<br>68.0<br>170.0 | 7.5<br>15.0<br>30.9<br>77.3 | 22 AWG<br>(solid)<br>.025"<br>BCCS<br>41.2Ω/M'<br>135.1Ω/km | .146 | 3.71 | BC Braid<br>95% Shield<br>Coverage<br>2.9Ω/M'<br>9.5Ω/km | .242 | 6.15 | 93 | 84% | 13.5 | 44.3 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.9<br>1.9<br>2.7<br>3.8<br>5.3<br>7.3<br>8.2<br>8.7 | .8<br>2.8<br>6.2<br>8.9<br>12.5<br>17.4<br>23.9<br>26.9<br>28.5 |

| Semi-solid Polyethylene Insulation • Black PVC Jacket |      |                              |                             |                                  |                              |                              |                                                             |      |      |                                                          |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|-------------------------------------------------------|------|------------------------------|-----------------------------|----------------------------------|------------------------------|------------------------------|-------------------------------------------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| UL AWM<br>Style 1478<br>(30V 60°C)                    | 9268 | NEC:<br>CM CL2<br>CEC:<br>CM | 500<br>1000<br>1000<br>2000 | 152.4<br>304.8<br>304.8<br>609.6 | 22.0<br>43.0<br>44.0<br>88.0 | 10.0<br>19.5<br>20.0<br>40.0 | 22 AWG<br>(solid)<br>.025"<br>BCCS<br>41.2Ω/M'<br>135.1Ω/km | .146 | 3.71 | BC Braid<br>95% Shield<br>Coverage<br>2.9Ω/M'<br>9.5Ω/km | .260 | 6.60 | 93 | 84% | 13.5 | 44.3 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.9<br>1.9<br>2.7<br>3.8<br>5.3<br>7.3<br>8.2<br>8.7 | .8<br>2.8<br>6.2<br>8.9<br>12.5<br>17.4<br>23.9<br>26.9<br>28.5 |

IBM P/N 5252750 • Includes Mylar® tape as a moisture barrier for improved outdoor reliability.

|                                    |      |                              |                                                                |                                                                          |                                                                |                                                            |                                                             |      |      |                                                          |      |      |    |     |      |      |                                                          |                                                           |                                                                 |
|------------------------------------|------|------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| UL AWM<br>Style 1478<br>(30V 60°C) | 9269 | NEC:<br>CM CL2<br>CEC:<br>CM | U-500<br>500<br>U-1000<br>1000<br>1640<br>2000<br>3280<br>5000 | U-152.4<br>152.4<br>304.8<br>304.8<br>500.0<br>609.6<br>1000.0<br>1524.0 | 18.5<br>18.5<br>36.0<br>36.0<br>59.0<br>74.0<br>118.1<br>180.0 | 8.4<br>8.4<br>16.4<br>16.4<br>26.8<br>33.6<br>53.7<br>81.8 | 22 AWG<br>(solid)<br>.025"<br>BCCS<br>41.2Ω/M'<br>135.1Ω/km | .146 | 3.71 | BC Braid<br>95% Shield<br>Coverage<br>2.9Ω/M'<br>9.5Ω/km | .239 | 6.07 | 93 | 84% | 13.5 | 44.3 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.9<br>1.9<br>2.7<br>3.8<br>5.3<br>7.3<br>8.2<br>8.7 | .8<br>2.8<br>6.2<br>8.9<br>12.5<br>17.4<br>23.9<br>26.9<br>28.5 |
|------------------------------------|------|------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|------|------|----------------------------------------------------------|------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|

For Plenum version of 9269,  
see 89269, 87269 and 82269.

IBM P/N 323921 P-MSHA SC-1823\*\*

\*U-1000 put-up also available in Orange, Yellow, Blue, Beige or Chrome.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Mylar is a DuPont trademark.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1.**

For cables manufactured to latest government revision or other MIL-SPEC requirements, please contact your nearest Belden regional Sales Office.

†† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

\* Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.

\*\* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.





## Computer and Instrumentation Cable

## 93 Ohm Coax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------------------|--------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                              |                          | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**RG-62/U Type • 22 AWG Solid .025" Bare Copper-covered Steel • 94% Bare Copper Braid Shield**

| Plenum • Semi-solid FEP Insulation • Black or White Tint FEP Jacket              |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      |      |     |      |
|----------------------------------------------------------------------------------|-------|---------|-------------------|-------|------|-----------|---------|------|----------|------------|------|------|----|-----|------|------|------|------|------|-----|------|
| 200°C                                                                            | 89269 | NEC:    | 100 <sup>▲</sup>  | 30.5  | 5.2  | 2.4       | 22 AWG  | .142 | 3.61     | BC Braid   | .200 | 5.08 | 93 | 85% | 12.8 | 42.0 | 1    | .3   | 1.0  |     |      |
|  |       | CMP     | 500 <sup>†</sup>  | 152.4 | 18.0 | 8.2       | (solid) |      |          | 94% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |     |      |
|                                                                                  |       | CEC:    | 1000 <sup>†</sup> | 304.8 | 36.0 | 16.4      | .025"   |      |          | Coverage   |      |      |    |     |      |      | 50   | 1.9  | 6.2  |     |      |
|                                                                                  |       | CMP FT6 |                   |       |      |           | BCCS    |      |          | 3.4Ω/M'    |      |      |    |     |      |      | 100  | 2.7  | 8.9  |     |      |
|                                                                                  |       |         |                   |       |      | 41.2Ω/M'  |         |      | 11.2Ω/km |            |      |      |    |     |      | 200  | 3.8  | 12.5 |      |     |      |
|                                                                                  |       |         |                   |       |      | 135.2Ω/km |         |      |          |            |      |      |    |     |      | 400  | 5.3  | 17.4 |      |     |      |
|                                                                                  |       |         |                   |       |      |           |         |      |          |            |      |      |    |     | 700  | 7.3  | 23.9 |      |      |     |      |
|                                                                                  |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      | 900  | 8.2 | 26.9 |
|                                                                                  |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      | 1000 | 8.7 | 28.5 |
| ▲100 ft. put-up available in Black only.                                         |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      |      |     |      |
| Suitable for Outdoor and Direct Burial applications.                             |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      |      |     |      |

\*100 ft. put-up available in Black only.

Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Gray Fluorocopolymer Jacket                            |       |         |       |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      |      |     |      |
|----------------------------------------------------------------------------------|-------|---------|-------|-------|------|-----------|---------|------|----------|------------|------|------|----|-----|------|------|------|------|------|-----|------|
| 150°C                                                                            | 87269 | NEC:    | 1000† | 304.8 | 34.0 | 16.5      | 22 AWG  | .142 | 3.61     | BC Braid   | .200 | 5.08 | 93 | 85% | 12.8 | 42.0 | 1    | .3   | 1.0  |     |      |
|  |       | CMP     |       |       |      |           | (solid) |      |          | 94% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |     |      |
|                                                                                  |       | CEC:    |       |       |      |           | .025"   |      |          | Coverage   |      |      |    |     |      |      | 50   | 1.9  | 6.2  |     |      |
|                                                                                  |       | CMP FT6 |       |       |      |           | BCCS    |      |          | 3.4Ω/M'    |      |      |    |     |      |      | 100  | 2.7  | 8.9  |     |      |
|                                                                                  |       |         |       |       |      | 41.2Ω/M'  |         |      | 11.2Ω/km |            |      |      |    |     |      | 200  | 3.8  | 12.5 |      |     |      |
|                                                                                  |       |         |       |       |      | 135.2Ω/km |         |      |          |            |      |      |    |     |      | 400  | 5.3  | 17.4 |      |     |      |
|                                                                                  |       |         |       |       |      |           |         |      |          |            |      |      |    |     | 700  | 7.3  | 23.9 |      |      |     |      |
|                                                                                  |       |         |       |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      | 900  | 8.2 | 26.9 |
|                                                                                  |       |         |       |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      | 1000 | 8.7 | 28.5 |
| Suitable for Outdoor and Direct Burial applications.                             |       |         |       |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      |      |     |      |

Suitable for Outdoor and Direct Burial applications.

| Plenum • Semi-solid FEP Insulation • Natural Flamarrest® Jacket                  |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      |      |      |      |
|----------------------------------------------------------------------------------|-------|---------|-------------------|-------|------|-----------|---------|------|----------|------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                                             | 82269 | NEC:    | 1000 <sup>†</sup> | 304.8 | 34.0 | 15.5      | 22 AWG  | .142 | 3.61     | BC Braid   | .200 | 5.08 | 93 | 85% | 12.8 | 42.0 | 1    | .3   | 1.0  |
|  |       | CMP     |                   |       |      |           | (solid) |      |          | 94% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
|                                                                                  |       | CEC:    |                   |       |      |           | .025"   |      |          | Coverage   |      |      |    |     |      |      | 50   | 1.9  | 6.2  |
|                                                                                  |       | CMP FT6 |                   |       |      |           | BCCS    |      |          | 3.4Ω/M'    |      |      |    |     |      |      | 100  | 2.7  | 8.9  |
|                                                                                  |       |         |                   |       |      | 41.2Ω/M'  |         |      | 11.2Ω/km |            |      |      |    |     |      | 200  | 3.8  | 12.5 |      |
|                                                                                  |       |         |                   |       |      | 135.2Ω/km |         |      |          |            |      |      |    |     |      | 400  | 5.3  | 17.4 |      |
|                                                                                  |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      | 700  | 7.3  | 23.9 |      |
|                                                                                  |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      | 900  | 8.2  | 26.9 |
|                                                                                  |       |         |                   |       |      |           |         |      |          |            |      |      |    |     |      |      | 1000 | 8.7  | 28.5 |

| Plenum • Foam FEP Insulation • White Tint FEP Jacket                               |       |       |         |                   |       |      |      |           |      |      |            |      |      |    |     |      |      |      |     |      |
|------------------------------------------------------------------------------------|-------|-------|---------|-------------------|-------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|-----|------|
|  | 200°C | 86262 | NEC:    | 500 <sup>†</sup>  | 152.4 | 18.0 | 8.2  | 22 AWG    | .146 | 3.71 | BC Braid   | .204 | 5.18 | 93 | 85% | 12.5 | 41.0 | 1    | .3  | 1.8  |
|                                                                                    |       |       | CMP     | 1000 <sup>†</sup> | 304.8 | 35.0 | 15.9 | (solid)   |      |      | 94% Shield |      |      |    |     |      |      | 10   | .9  | 3.0  |
|                                                                                    |       |       | CEC:    |                   |       |      |      | .025"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 1.9 | 6.2  |
|                                                                                    |       |       | CMP FT6 |                   |       |      |      | BCCS      |      |      | 3.4Ω/M'    |      |      |    |     |      |      | 100  | 2.7 | 8.9  |
|                                                                                    |       |       |         |                   |       |      |      | 41.2Ω/M'  |      |      | 11.2Ω/km   |      |      |    |     |      |      | 200  | 3.8 | 12.5 |
|                                                                                    |       |       |         |                   |       |      |      | 135.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 5.3 | 17.4 |
|                                                                                    |       |       |         |                   |       |      |      |           |      |      |            |      |      |    |     |      |      | 700  | 7.3 | 23.9 |
|                                                                                    |       |       |         |                   |       |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 8.2 | 26.9 |
|                                                                                    |       |       |         |                   |       |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 8.7 | 28.5 |
| Suitable for Outdoor and Direct Burial applications.                               |       |       |         |                   |       |      |      |           |      |      |            |      |      |    |     |      |      |      |     |      |

Suitable for Outdoor and Direct Burial applications.

| Plenum • Foam FEP Insulation • Natural Flamarrest Jacket                           |      |       |         |                     |         |      |      |           |      |      |            |      |      |    |     |      |      |      |     |      |
|------------------------------------------------------------------------------------|------|-------|---------|---------------------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|-----|------|
|  | 75°C | 82262 | NEC:    | U-1000 <sup>†</sup> | U-304.8 | 31.0 | 14.1 | 22 AWG    | .146 | 3.71 | BC Braid   | .204 | 5.18 | 93 | 85% | 12.5 | 41.0 | 1    | .3  | 1.8  |
|                                                                                    |      |       | CMP     | 1000 <sup>†</sup>   | 304.8   | 33.0 | 15.0 | (solid)   |      |      | 94% Shield |      |      |    |     |      |      | 10   | .9  | 3.0  |
|                                                                                    |      |       | CEC:    |                     |         |      |      | .025"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 1.9 | 6.2  |
|                                                                                    |      |       | CMP FT6 |                     |         |      |      | BCCS      |      |      | 3.4Ω/M'    |      |      |    |     |      |      | 100  | 2.7 | 8.9  |
|                                                                                    |      |       |         |                     |         |      |      | 41.2Ω/M'  |      |      | 11.2Ω/km   |      |      |    |     |      |      | 200  | 3.8 | 12.5 |
|                                                                                    |      |       |         |                     |         |      |      | 135.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 5.3 | 17.4 |
|                                                                                    |      |       |         |                     |         |      |      |           |      |      |            |      |      |    |     |      |      | 700  | 7.3 | 23.9 |
|                                                                                    |      |       |         |                     |         |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 8.2 | 26.9 |
|                                                                                    |      |       |         |                     |         |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 8.7 | 28.5 |
| Suitable for Outdoor and Direct Burial applications.                               |      |       |         |                     |         |      |      |           |      |      |            |      |      |    |     |      |      |      |     |      |

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1.

†Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  from length shown.

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1-800-527-0010

# Computer and Instrumentation Cable

78 Ohm, 95 Ohm and 100 Ohm Twinax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

## 78 Ohm • 20 AWG Stranded (7x28) .038" Tinned Copper • 93% Tinned Copper Braid Shield

| Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue) |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |     |      |      |
|---------------------------------------------------------------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|-----|------|------|
| UL AWM                                                              | 9272 | NEC: | 100    | 30.5    | 4.9  | 2.2  | 20 AWG   | .156 | 3.96 | TC Braid   | .244 | 6.20 | 78 | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |
| Style 2092                                                          |      | CM   | U-500  | U-152.4 | 20.0 | 9.1  | (7x28)   |      |      | 93% Shield |      |      |    |     |      |      | 10  | 2.1  | 6.9  |
| (300V 60°C)                                                         |      | CEC: | 500    | 152.4   | 20.0 | 9.1  | .038"    |      |      | Coverage   |      |      |    |     |      |      | 50  | 5.0  | 16.4 |
|                                                                     |      | CM   | U-1000 | U-304.8 | 39.0 | 17.7 | TC       |      |      | 3.4Ω/M'    |      |      |    |     |      |      | 100 | 7.5  | 24.6 |
|                                                                     |      |      | 1000   | 304.8   | 40.0 | 18.2 | 9.5Ω/M'  |      |      | 11.2Ω/km   |      |      |    |     |      |      | 200 | 11.0 | 36.1 |
|                                                                     |      |      |        |         |      |      | 31.2Ω/km |      |      |            |      |      |    |     |      |      | 400 | 16.0 | 52.5 |

For Plenum version of 9272, see 89272.

CPE jacket optional.

## Plenum • FEP Insulation • Blue FEP Jacket (Color Code: Clear, Blue)

|       |       |      |       |       |      |      |         |      |      |            |      |      |    |       |      |      |     |      |      |
|-------|-------|------|-------|-------|------|------|---------|------|------|------------|------|------|----|-------|------|------|-----|------|------|
| 200°C | 89272 | NEC: | 500†  | 152.4 | 19.0 | 8.6  | 20 AWG  | .148 | 3.76 | TC Braid   | .198 | 5.03 | 78 | 69.5% | 18.4 | 60.4 | 1   | .6   | 2.0  |
|       |       | CMP  | 1000† | 304.8 | 39.0 | 17.7 | (7x28)  |      |      | 93% Shield |      |      |    |       |      |      | 10  | 2.1  | 6.9  |
|       |       | CEC: |       |       |      |      | .037"   |      |      | Coverage   |      |      |    |       |      |      | 50  | 5.0  | 16.4 |
|       |       | CM   |       |       |      |      | TC      |      |      | 3.9Ω/M'    |      |      |    |       |      |      | 100 | 7.5  | 24.6 |
|       |       |      |       |       |      |      | 9.5Ω/M' |      |      | 12.8Ω/km   |      |      |    |       |      |      | 200 | 11.0 | 36.1 |

31.2Ω/km

## 78 Ohm • 20 AWG Stranded (7x28) .038" Tinned Copper • Beldfoil® + 55% Tinned Copper Braid Shield (100% Shield Coverage)

| Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)                |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|------------------------------------------------------------------------------------|-------------|------|--------|--------|---------|-------|----------|---------|------|------|----------|------|------|----|-----|------|------|-----|------|------|
|  | UL AWM      | 9463 | NEC:   | 100    | 30.5    | 4.6   | 2.1      | 20 AWG  | .154 | 3.91 | Beldfoil | .238 | 6.05 | 78 | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |
|                                                                                    | Style 2464  |      | CM CL2 | U-500  | U-152.4 | 18.5  | 8.4      | (7x28)  |      |      | + 55% TC |      |      |    |     |      |      | 10  | 2.1  | 6.9  |
|                                                                                    | (300V 80°C) |      | CEC:   | 500    | 152.4   | 18.5  | 8.4      | .038"   |      |      | Braid    |      |      |    |     |      |      | 50  | 3.6  | 11.8 |
|                                                                                    |             |      | CM     | U-1000 | U-304.8 | 37.0  | 16.8     | TC      |      |      | 4.1Ω/M'  |      |      |    |     |      |      | 100 | 7.5  | 24.6 |
|                                                                                    |             |      |        | 1000   | 304.8   | 37.0  | 16.8     | 9.5Ω/M' |      |      | 13.4Ω/km |      |      |    |     |      |      | 200 | 11.0 | 36.1 |
|                                                                                    |             |      | 6000   | 1828.7 | 222.0   | 100.9 | 31.0Ω/km |         |      |      |          |      |      |    |     |      |      | 400 | 16.0 | 52.5 |
|                                                                                    |             |      | 10000  | 3048.0 | 370.0   | 168.2 |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |
|                                                                                    |             |      |        |        |         |       |          |         |      |      |          |      |      |    |     |      |      |     |      |      |

CPE jacket optional.

P-MSHA SC-182/6\*

Allen Bradley P/N 1770-CD

†1000 ft. and 6000 ft. put-ups also available in Brown, Orange and Violet.

\*10,000 ft. put-up available in Brown, Orange and Violet only.

## 95 Ohm • 18 AWG Stranded (7x26) .046" Bare Copper\*\* • Two Tinned Copper Braids (95% Shield Coverage)

| Polyethylene Insulation • Black Non-contaminating PVC Jacket (Color Code: Clear, Blue) |      |      |       |       |      |          |      |      |               |      |       |    |     |      |      |                      |     |      |  |
|----------------------------------------------------------------------------------------|------|------|-------|-------|------|----------|------|------|---------------|------|-------|----|-----|------|------|----------------------|-----|------|--|
| 80°C                                                                                   | 9250 | 500  | 152.4 | 64.5  | 29.3 | 18 AWG   | .285 | 7.24 | (2) TC Braids | .420 | 10.67 | 95 | 66% | 16.0 | 52.5 | 1                    | .3  | 1.0  |  |
| VW-1                                                                                   |      | 1000 | 304.8 | 128.0 | 58.2 | (7x26)   |      |      | 95% Shield    |      |       |    |     |      |      | 10                   | .9  | 3.0  |  |
|                                                                                        |      |      |       |       |      | .046"    |      |      | Coverage      |      |       |    |     |      |      | 20                   | 1.3 | 4.3  |  |
|                                                                                        |      |      |       |       |      | BC       |      |      | .9Ω/M'        |      |       |    |     |      |      | 50                   | 2.1 | 6.9  |  |
|                                                                                        |      |      |       |       |      | 6.6Ω/M'  |      |      | 3.0Ω/km       |      |       |    |     |      |      | 100                  | 3.0 | 9.8  |  |
|                                                                                        |      |      |       |       |      | 21.5Ω/km |      |      |               |      |       |    |     |      |      | 400                  | 6.3 | 20.7 |  |
|     |      |      |       |       |      |          |      |      |               |      |       |    |     |      |      | CPE jacket optional. |     |      |  |

CPE jacket optional.

21.5Ω/km

RG-22B/U Type

\*\*1 conductor has tinned center strand.

## 100 Ohm • 20 AWG Stranded (7x28) .037" One Tinned/One Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Polyethylene Insulation • Black High-density Polyethylene Jacket                                                                        |      |      |       |       |      |          |      |      |            |      |      |     |     |      |      |     |      |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|-------|------|----------|------|------|------------|------|------|-----|-----|------|------|-----|------|------|------|
| <div>Direct Burial</div> <div>80°C</div> <div></div> | 9815 | 500  | 152.4 | 33.5  | 15.2 | 20 AWG   | .236 | 5.99 | TC Braid   | .330 | 8.38 | 100 | 66% | 14.5 | 47.6 | 1   | .4   | 1.3  |      |
|                                                                                                                                         |      | 1000 | 304.8 | 69.0  | 31.4 | (7x28)   |      |      | 95% Shield |      |      |     |     |      |      |     | 10   | 1.1  | 3.6  |
|                                                                                                                                         |      | 2000 | 609.6 | 134.0 | 60.9 | .037"    |      |      | Coverage   |      |      |     |     |      |      |     | 50   | 2.5  | 8.2  |
|                                                                                                                                         |      |      |       |       |      | (1) TC,  |      |      | 2.0Ω/M'    |      |      |     |     |      |      |     | 100  | 4.1  | 13.5 |
|                                                                                                                                         |      |      |       |       |      | (1) BC   |      |      | 6.6Ω/km    |      |      |     |     |      |      | 200 | 6.4  | 21.0 |      |
|                                                                                                                                         |      |      |       |       |      | 9.5Ω/M'  |      |      |            |      |      |     |     |      |      | 400 | 10.2 | 33.5 |      |
|                                                                                                                                         |      |      |       |       |      | 31.0Ω/km |      |      |            |      |      |     |     |      |      |     |      |      |      |

31.0Ω/km

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1.**

\*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

†Spools may contain more than one piece. Length may vary ±10% from length shown.

# Computer and Instrumentation Cable

100 Ohm, 124 Ohm and 150 Ohm Twinax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**100 Ohm • 20 AWG Stranded (7x28) .037" One Tinned/One Bare Copper • Duofoil® + 86% TC Braid Shield (100% Shield Coverage)**

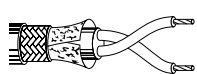
## Polyethylene Insulation • Black PVC Jacket

|                                                                                   |                                                                                   |        |                                         |         |       |       |          |        |      |      |         |          |      |     |     |      |      |     |      |      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------|---------|-------|-------|----------|--------|------|------|---------|----------|------|-----|-----|------|------|-----|------|------|
| 75°C                                                                              |  | 9207   | NEC:                                    | 100     | 30.5  | 7.1   | 3.2      | 20 AWG | .236 | 5.99 | Duofoil | .330     | 8.38 | 100 | 66% | 14.5 | 47.6 | 1   | .3   | 1.0  |
|  |                                                                                   | CM CL2 | U-500                                   | U-152.4 | 34.0  | 15.5  | (7x28)   |        |      |      |         | +86%     |      |     |     |      |      | 10  | 1.2  | 3.9  |
|                                                                                   |                                                                                   | CEC:   | 500                                     | 152.4   | 33.5  | 15.2  | .037"    |        |      |      |         | TC Braid |      |     |     |      |      | 50  | 2.8  | 9.2  |
|                                                                                   |                                                                                   | CM     | 1000                                    | 304.8   | 68.0  | 30.9  | (1) TC,  |        |      |      |         | 2.5Ω/M'  |      |     |     |      |      | 100 | 4.1  | 13.5 |
|                                                                                   |                                                                                   |        | 1640                                    | 500.0   | 111.5 | 50.7  | (1) BC   |        |      |      |         | 8.2Ω/km  |      |     |     |      |      | 200 | 6.4  | 21.0 |
|                                                                                   |                                                                                   |        | 2000                                    | 609.6   | 136.0 | 61.8  | 9.5Ω/M'  |        |      |      |         |          |      |     |     |      |      | 400 | 10.2 | 33.5 |
|                                                                                   |                                                                                   |        | 3280                                    | 1000.0  | 219.8 | 99.9  | 31.0Ω/km |        |      |      |         |          |      |     |     |      |      |     |      |      |
|                                                                                   |                                                                                   |        | 5000                                    | 1524.0  | 350.0 | 159.1 |          |        |      |      |         |          |      |     |     |      |      |     |      |      |
|                                                                                   |                                                                                   |        | For Plenum versions of 9207, see 89207. |         |       |       |          |        |      |      |         |          |      |     |     |      |      |     |      |      |
|                                                                                   |                                                                                   |        | CPE jacket optional.                    |         |       |       |          |        |      |      |         |          |      |     |     |      |      |     |      |      |
| IBM P/N 7362211                                                                   |                                                                                   |        |                                         |         |       |       |          |        |      |      |         |          |      |     |     |      |      |     |      |      |

IBM P/N 7362211

For Plenum versions of 9207,  
see 89207.  
CPE jacket optional.

## Plenum • FEP Insulation • Black FEP Jacket

|       |                                                                                  |         |       |       |      |      |                |        |      |          |         |      |      |     |       |      |      |     |      |      |
|-------|----------------------------------------------------------------------------------|---------|-------|-------|------|------|----------------|--------|------|----------|---------|------|------|-----|-------|------|------|-----|------|------|
| 200°C |  | 89207   | NEC:  | 100   | 30.5 | 6.7  | 3.0            | 20 AWG | .201 | 5.11     | Duofoil | .259 | 6.58 | 100 | 69.5% | 14.0 | 46.0 | 1   | .3   | 1.0  |
|       |                                                                                  | CMP     | 500†  | 152.4 | 28.0 | 12.7 | (7x28)         |        |      | +85%     |         |      |      |     |       |      |      | 10  | 1.2  | 3.9  |
|       |                                                                                  | CEC:    | 1000† | 304.8 | 55.0 | 25.0 | .037"          |        |      | TC Braid |         |      |      |     |       |      |      | 50  | 2.8  | 9.2  |
|       |                                                                                  | CMP FT6 |       |       |      |      | (1) TC, (1) BC |        |      | 2.5Ω/M'  |         |      |      |     |       |      |      | 100 | 4.1  | 13.5 |
|       |                                                                                  |         |       |       |      |      | 9.5Ω/M'        |        |      | 8.2Ω/km  |         |      |      |     |       |      |      | 200 | 6.4  | 21.0 |
|       |                                                                                  |         |       |       |      |      | 31.2Ω/km       |        |      |          |         |      |      |     |       |      |      | 300 | 8.4  | 27.6 |
|       |                                                                                  |         |       |       |      |      |                |        |      |          |         |      |      |     |       |      |      | 400 | 10.2 | 33.5 |

**124 Ohm • 25 AWG Stranded (7x33) .021" Tinned Copper • Beldfoil® with Stranded TC Drain Wire (100% Shield Coverage)**

## Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)

|                                                                                   |                                     |      |      |        |         |      |      |           |      |      |          |      |      |     |     |      |      |     |     |      |
|-----------------------------------------------------------------------------------|-------------------------------------|------|------|--------|---------|------|------|-----------|------|------|----------|------|------|-----|-----|------|------|-----|-----|------|
|  | UL AWM<br>Style 2092<br>(300V 60°C) | 9271 | NEC: | 100    | 30.5    | 3.7  | 1.7  | 25 AWG    | .170 | 4.32 | Beldfoil | .240 | 6.10 | 124 | 66% | 12.2 | 40.0 | 1   | .6  | 2.0  |
|                                                                                   |                                     |      | CM   | U-500  | U-152.4 | 14.0 | 6.4  | (7x33)    |      |      | 12.0Ω/M' |      |      |     |     |      |      | 10  | 1.7 | 5.6  |
|                                                                                   |                                     |      | CEC: | 500    | 152.4   | 14.0 | 6.4  | .021"     |      |      | 39.4Ω/km |      |      |     |     |      |      | 50  | 3.6 | 11.8 |
|                                                                                   |                                     |      | CM   | U-1000 | U-304.8 | 27.0 | 12.3 | TC        |      |      |          |      |      |     |     |      |      | 100 | 5.0 | 16.4 |
|                                                                                   |                                     |      |      | 1000   | 304.8   | 28.0 | 12.7 | 31.8Ω/M'  |      |      |          |      |      |     |     |      |      | 200 | 6.9 | 22.6 |
|                                                                                   |                                     |      |      |        |         |      |      | 104.3Ω/km |      |      |          |      |      |     |     |      |      | 400 | 9.6 | 31.5 |
|                                                                                   |                                     |      |      |        |         |      |      |           |      |      |          |      |      |     |     |      |      |     |     |      |

Shorting Fold

CPE jacket optional.

**124 Ohm • 16 AWG Solid .051" Bare Copper • Duofoil + 90% Tinned Copper Braid Shield (100% Shield Coverage)**

## Foam Polyethylene Insulation • Black PVC Jacket (Color Code: Clear, Blue)

|                                                                                    |                                    |      |      |      |       |       |      |          |      |      |          |      |       |     |     |      |      |     |     |      |
|------------------------------------------------------------------------------------|------------------------------------|------|------|------|-------|-------|------|----------|------|------|----------|------|-------|-----|-----|------|------|-----|-----|------|
|  | UL AWM<br>Style 2448<br>(30V 60°C) | 9860 | NEC: | 500  | 152.4 | 52.0  | 23.6 | 16 AWG   | .322 | 8.18 | Duofoil  | .440 | 11.18 | 124 | 78% | 10.9 | 35.8 | 1   | .2  | .6   |
|                                                                                    |                                    |      | CMX  | 1000 | 304.8 | 103.0 | 46.8 | (solid)  |      |      | + 90%    |      |       |     |     |      |      | 10  | .7  | 2.3  |
|                                                                                    |                                    |      | CEC: | 2000 | 609.6 | 202.0 | 91.8 | .051"    |      |      | TC Braid |      |       |     |     |      |      | 50  | 1.8 | 5.9  |
|                                                                                    |                                    |      | CMX  |      |       |       |      | BC       |      |      | 1.3Ω/M'  |      |       |     |     |      |      | 100 | 2.9 | 9.5  |
|                                                                                    |                                    |      |      |      |       |       |      | 4.2Ω/M'  |      |      | 4.3Ω/km  |      |       |     |     |      |      | 200 | 4.1 | 13.5 |
|                                                                                    |                                    |      |      |      |       |       |      | 13.8Ω/km |      |      |          |      |       |     |     |      |      | 400 | 6.2 | 20.3 |
|                                                                                    |                                    |      |      |      |       |       |      |          |      |      |          |      |       |     |     |      |      |     |     |      |

CPE jacket optional.

**150 Ohm • 22 AWG Stranded (19x34) .031" Tinned Copper • Duofoil with Stranded TC Drain Wire (100% Shield Coverage)**

## Datalene® Insulation • Black PVC Jacket (Color Code: Black, Yellow)

|                                                                                    |                                            |      |      |       |         |      |      |          |      |      |          |      |      |     |     |     |      |     |     |      |
|------------------------------------------------------------------------------------|--------------------------------------------|------|------|-------|---------|------|------|----------|------|------|----------|------|------|-----|-----|-----|------|-----|-----|------|
|  | UL AWM<br>Style 2668<br>(30V 60°C)<br>VW-1 | 9182 | NEC: | U-500 | U-152.4 | 23.0 | 10.5 | 22 AWG   | .275 | 6.98 | Duofoil  | .345 | 8.76 | 150 | 78% | 8.8 | 28.9 | 1   | .4  | 1.3  |
|                                                                                    |                                            |      | CMX  | 500   | 152.4   | 23.5 | 10.7 | (19x34)  |      |      | 6.3Ω/M'  |      |      |     |     |     |      | 10  | 1.2 | 3.9  |
|                                                                                    |                                            |      | CL2X | 1000  | 304.8   | 45.0 | 20.5 | .031"    |      |      | 20.7Ω/km |      |      |     |     |     |      | 50  | 2.7 | 8.7  |
|                                                                                    |                                            |      | CEC: |       |         |      |      | TC       |      |      |          |      |      |     |     |     |      | 100 | 4.3 | 14.1 |
|                                                                                    |                                            |      | CMX  |       |         |      |      | 14.0Ω/M' |      |      |          |      |      |     |     |     |      | 200 | 6.2 | 20.3 |
|                                                                                    |                                            |      |      |       |         |      |      | 45.9Ω/km |      |      |          |      |      |     |     |     |      | 400 | 8.8 | 28.9 |
|                                                                                    |                                            |      |      |       |         |      |      |          |      |      |          |      |      |     |     |     |      |     |     |      |

Shorting Fold

For Plenum version of 9182,  
see 89182.  
Dual version: YR41609.  
CPE jacket optional.

## Plenum • Foam FEP Insulation • Black FEP Jacket (Color Code: Black and Yellow)

|                                                                                    |  |       |         |        |       |      |      |          |      |      |          |      |      |     |     |     |      |     |     |      |
|------------------------------------------------------------------------------------|--|-------|---------|--------|-------|------|------|----------|------|------|----------|------|------|-----|-----|-----|------|-----|-----|------|
|  |  | 89182 | NEC:    | 100    | 30.5  | 6.4  | 2.9  | 22 AWG   | .278 | 7.06 | Duofoil  | .307 | 7.80 | 150 | 78% | 8.8 | 28.9 | 1   | .4  | 1.3  |
|                                                                                    |  |       | CMP     | 500††  | 152.4 | 28.0 | 12.7 | (19x34)  |      |      | 6.3Ω/M'  |      |      |     |     |     |      | 10  | 1.2 | 3.9  |
|                                                                                    |  |       | CL2P    | 1000†† | 304.8 | 53.0 | 24.1 | .031"    |      |      | 20.7Ω/km |      |      |     |     |     |      | 50  | 2.7 | 8.7  |
|                                                                                    |  |       | CEC:    |        |       |      |      | TC       |      |      |          |      |      |     |     |     |      | 100 | 4.3 | 14.1 |
|                                                                                    |  |       | CMP FT6 |        |       |      |      | 14.0Ω/M' |      |      |          |      |      |     |     |     |      | 200 | 6.2 | 20.3 |
|                                                                                    |  |       |         |        |       |      |      | 45.9Ω/km |      |      |          |      |      |     |     |     |      | 400 | 8.8 | 28.9 |
|                                                                                    |  |       |         |        |       |      |      |          |      |      |          |      |      |     |     |     |      |     |     |      |

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

† Spools may contain more than one piece. Length may vary ±10% from length shown.

†† Spools are one piece, but length may vary ±10% from length shown.



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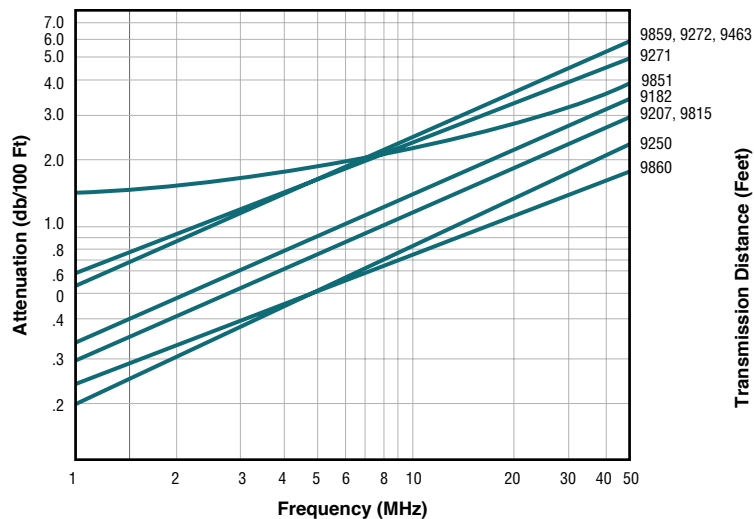
Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

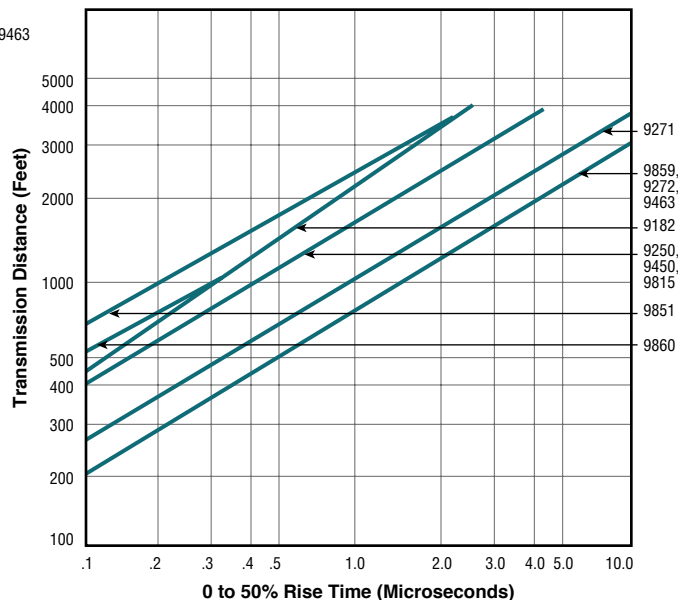
# Computer and Instrumentation Cable

## Electrical Characteristics — Twinax

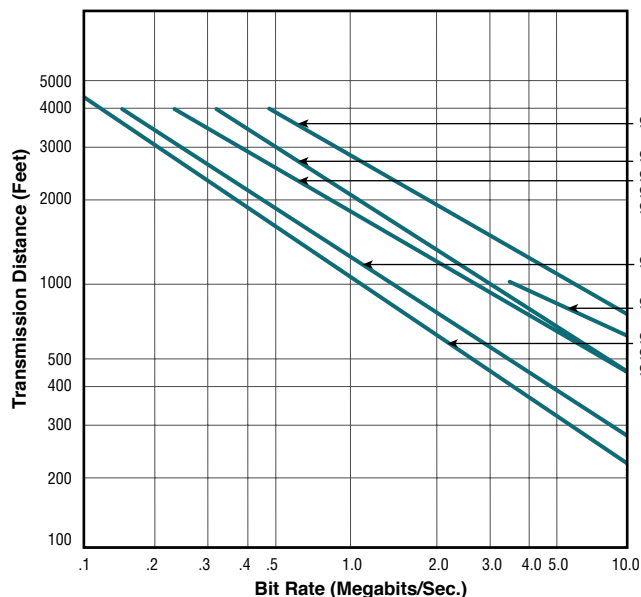
### Attenuation



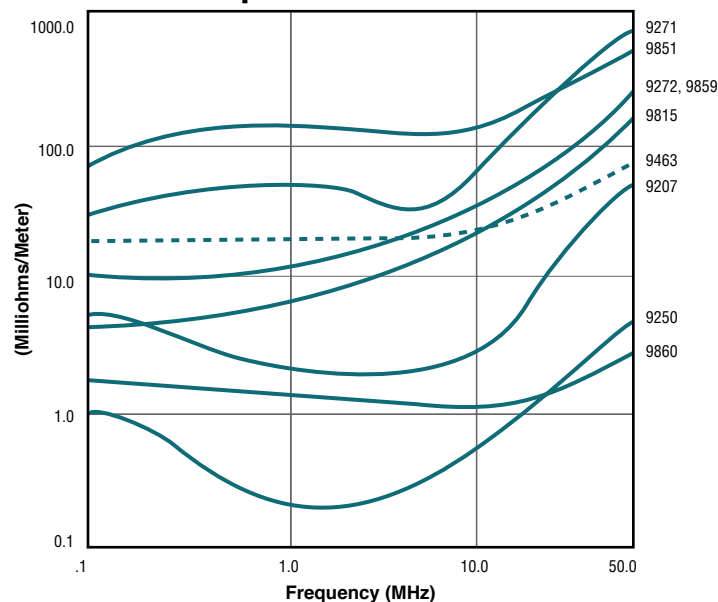
### Rise Time



### Bit Rate



### Transfer Impedance

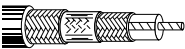


# Computer and Instrumentation Cable

50 Ohm Triax

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**RG-58A/U Type • 20 AWG** Stranded (7x28) .037" Tinned Copper • Two Tinned Copper Braids (96% Shield Coverage)

| Polyethylene Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids) |      |      |       |         |      |     |                  |      |      |                                         |      |      |    |     |      |       |      |      |      |
|--------------------------------------------------------------------------------------|------|------|-------|---------|------|-----|------------------|------|------|-----------------------------------------|------|------|----|-----|------|-------|------|------|------|
|      | 75°C | 9222 | 100   | 30.5    | 5.0  | 2.3 | 20 AWG<br>(7x28) | .114 | 2.90 | (2) TC Braids<br>96% Shield<br>Coverage | .240 | 6.10 | 50 | 66% | 30.8 | 101.0 | 1    | .5   | 1.6  |
|                                                                                      |      |      | U-500 | U-152.4 | 18.5 | 8.4 |                  |      |      |                                         |      |      |    |     |      |       | 10   | 1.5  | 4.9  |
|                                                                                      |      |      | 500   | 152.4   | 18.5 | 8.4 | .037"            |      |      |                                         |      |      |    |     |      |       | 50   | 3.3  | 10.8 |
|                                                                                      |      |      |       |         |      |     | TC               |      |      | Inner:                                  |      |      |    |     |      |       | 100  | 4.9  | 16.1 |
|                                                                                      |      |      |       |         |      |     | 9.5Ω/M'          |      |      | 4.7Ω/M'                                 |      |      |    |     |      |       | 200  | 7.2  | 23.6 |
|                                                                                      |      |      |       |         |      |     | 31.0Ω/km         |      |      | 15.5Ω/km                                |      |      |    |     |      |       | 400  | 12.0 | 39.4 |
|                                                                                      |      |      |       |         |      |     |                  |      |      | Outer:                                  |      |      |    |     |      |       | 700  | 18.0 | 57.1 |
|                                                                                      |      |      |       |         |      |     |                  |      |      | 4.3Ω/M'                                 |      |      |    |     |      |       | 900  | 22.0 | 72.2 |
|                                                                                      |      |      |       |         |      |     |                  |      |      | 14.1Ω/km                                |      |      |    |     |      |       | 1000 | 24.0 | 78.7 |

**RG-8/U Type • 11 AWG** Stranded (7x19) .108" Bare Copper • Two Bare Copper Braids (96% Shield Coverage)

| Foam Polyethylene Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids) |      |      |      |       |       |      |                  |      |      |                                  |      |       |    |     |      |      |      |     |      |
|---------------------------------------------------------------------------------------------------|------|------|------|-------|-------|------|------------------|------|------|----------------------------------|------|-------|----|-----|------|------|------|-----|------|
|                   | 80°C | 9888 | 500  | 152.4 | 72.5  | 33.0 | 11 AWG<br>(7x19) | .285 | 7.24 | (2) BC<br>96% Shield<br>Coverage | .480 | 12.19 | 50 | 78% | 26.0 | 85.3 | 1    | .1  | .5   |
|                                                                                                   |      |      | 1000 | 304.8 | 140.0 | 63.6 |                  |      |      |                                  |      |       |    |     |      |      | 10   | .5  | 1.7  |
|                                                                                                   |      |      |      |       |       |      | .108"            |      |      |                                  |      |       |    |     |      |      | 50   | 1.2 | 3.9  |
|                                                                                                   |      |      |      |       |       |      | BC               |      |      | Inner:                           |      |       |    |     |      |      | 100  | 1.8 | 5.9  |
|                                                                                                   |      |      |      |       |       |      | 1.2Ω/M'          |      |      | 1.2Ω/M'                          |      |       |    |     |      |      | 200  | 2.7 | 8.9  |
|                                                                                                   |      |      |      |       |       |      | 3.9Ω/km          |      |      | 3.9Ω/km                          |      |       |    |     |      |      | 400  | 4.2 | 13.8 |
|                                                                                                   |      |      |      |       |       |      |                  |      |      | Outer:                           |      |       |    |     |      |      | 700  | 5.8 | 19.0 |
|                                                                                                   |      |      |      |       |       |      |                  |      |      | 2.1Ω/M'                          |      |       |    |     |      |      | 900  | 6.7 | 22.0 |
|                                                                                                   |      |      |      |       |       |      |                  |      |      | 4.9Ω/km                          |      |       |    |     |      |      | 1000 | 7.1 | 23.3 |

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## Amateur Radio and CB Coaxial Cable Assemblies

RG-8/U Type • 50 Ohm

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg | Inch       | mm |

**RG-8/U Type • 11 AWG** Stranded (7x19) Bare Copper • Military-Type Braid Coverage • Fitted with PL-259 Connectors on Both Ends

**Foam Polyethylene Insulation • Black PVC Jacket**



|             |     |       |      |     |      |       |
|-------------|-----|-------|------|-----|------|-------|
| <b>9354</b> | 50  | 15.24 | 5.5  | 2.5 | .403 | 10.24 |
| <b>9355</b> | 75  | 22.86 | 8.3  | 3.8 | .403 | 10.24 |
| <b>9356</b> | 100 | 30.48 | 10.9 | 5.0 | .403 | 10.24 |

Coax is 8214. See page 6.65 for product details.

These cables are designed to be used with two-way systems, such as Citizens Band (CB), Commercial, Amateur, and Marine equipment applications. They provide a positive link between the transmitter and antenna or between the receiver and antenna.

They are capable of handling higher power requirements with lower signal losses. Packaged individually.

## Technical Information

### Attenuation vs. Frequency for Belden® Broadband Coaxial Products

| Frequency Point (MHz) | Series 59          |                 |                    |                 | Series 6           |                 |                    |                 | Series 11          |                 |                    |                 |
|-----------------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
|                       | Nominal dB/100 Ft. | Nominal dB/100m | Maximum dB/100 Ft. | Maximum dB/100m | Nominal dB/100 Ft. | Nominal dB/100m | Maximum dB/100 Ft. | Maximum dB/100m | Nominal dB/100 Ft. | Nominal dB/100m | Maximum dB/100 Ft. | Maximum dB/100m |
| 5                     | .75                | 2.46            | .89                | 2.92            | .54                | 1.77            | .67                | 2.20            | .34                | 1.12            | .38                | 1.25            |
| 55                    | 1.84               | 6.04            | 1.95               | 6.40            | 1.45               | 4.76            | 1.60               | 5.25            | .91                | 2.99            | .97                | 3.18            |
| 211                   | 3.36               | 11.02           | 3.59               | 11.78           | 2.64               | 8.66            | 2.87               | 9.42            | 1.68               | 5.51            | 1.81               | 5.94            |
| 216                   | 3.41               | 11.19           | 3.69               | 12.11           | 2.67               | 8.76            | 2.95               | 9.68            | 1.70               | 5.58            | 1.84               | 6.04            |
| 240                   | 3.57               | 11.71           | 3.87               | 12.70           | 2.80               | 9.19            | 3.09               | 10.14           | 1.78               | 5.84            | 1.94               | 6.36            |
| 270                   | 3.79               | 12.43           | 4.05               | 13.29           | 2.97               | 9.74            | 3.24               | 10.63           | 1.89               | 6.20            | 2.05               | 6.73            |
| 300                   | 3.99               | 13.09           | 4.27               | 14.01           | 3.13               | 10.27           | 3.43               | 11.25           | 1.99               | 6.53            | 2.15               | 7.05            |
| 325                   | 4.16               | 13.65           | 4.50               | 14.76           | 3.26               | 10.70           | 3.59               | 11.78           | 2.07               | 6.79            | 2.24               | 7.35            |
| 350                   | 4.33               | 14.21           | 4.64               | 15.22           | 3.39               | 11.12           | 3.72               | 12.20           | 2.15               | 7.05            | 2.32               | 7.61            |
| 375                   | 4.49               | 14.73           | 4.84               | 15.88           | 3.52               | 11.55           | 3.87               | 12.70           | 2.22               | 7.28            | 2.40               | 7.87            |
| 400                   | 4.66               | 15.29           | 4.88               | 16.01           | 3.65               | 11.97           | 4.00               | 13.12           | 2.30               | 7.55            | 2.47               | 8.10            |
| 450                   | 4.96               | 16.27           | 5.30               | 17.39           | 3.88               | 12.73           | 4.26               | 13.98           | 2.45               | 8.04            | 2.65               | 8.69            |
| 500                   | 5.22               | 17.13           | 5.50               | 18.04           | 4.09               | 13.42           | 4.48               | 14.70           | 2.59               | 8.50            | 2.85               | 9.35            |
| 550                   | 5.48               | 17.98           | 5.90               | 19.36           | 4.30               | 14.11           | 4.71               | 15.45           | 2.73               | 8.96            | 2.94               | 9.65            |
| 600                   | 5.75               | 18.86           | 6.18               | 20.28           | 4.51               | 14.80           | 4.94               | 16.21           | 2.85               | 9.35            | 3.08               | 10.10           |
| 650                   | 6.03               | 19.78           | 6.52               | 21.39           | 4.72               | 15.49           | 5.18               | 16.99           | 2.98               | 9.78            | 3.22               | 10.56           |
| 700                   | 6.28               | 20.60           | 6.83               | 22.41           | 4.92               | 16.14           | 5.45               | 17.88           | 3.10               | 10.17           | 3.37               | 11.06           |
| 750                   | 6.51               | 21.36           | 6.96               | 22.83           | 5.11               | 16.76           | 5.59               | 18.34           | 3.21               | 10.53           | 3.50               | 11.48           |
| 800                   | 6.71               | 22.01           | 7.30               | 23.95           | 5.27               | 17.29           | 5.75               | 18.86           | 3.32               | 10.89           | 3.65               | 11.97           |
| 862                   | 6.97               | 22.87           | 7.50               | 24.61           | 5.47               | 17.95           | 5.98               | 19.62           | 3.46               | 11.35           | 3.82               | 12.53           |
| 870                   | 7.00               | 22.97           | 7.54               | 24.74           | 5.49               | 18.01           | 6.00               | 19.68           | 3.48               | 11.42           | 3.84               | 12.60           |
| 900                   | 7.14               | 23.42           | 7.79               | 25.56           | 5.60               | 18.37           | 6.11               | 20.05           | 3.55               | 11.65           | 3.96               | 12.99           |
| 950                   | 7.39               | 24.25           | 7.90               | 25.92           | 5.79               | 19.00           | 6.35               | 20.83           | 3.66               | 12.01           | 4.10               | 13.45           |
| 1000                  | 7.68               | 25.20           | 8.09               | 26.54           | 5.99               | 19.65           | 6.54               | 21.46           | 3.77               | 12.37           | 4.23               | 13.88           |





# Flat Cable

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## Introduction

Belden® flat cables are designed using the same expertise and design sophistication that made Belden a leader in round cable. Whatever your application, Belden is committed to offering quality flat cable products at a competitive price. Our extensive line includes Gray Ribbon, Rainbow, Vari-Twist® and Shielded and Jacketed Flat Cable options. Many of these are available off the shelf from local distributors. If you have a new or unusual application or you cannot find a flat cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Benefits of Flat Cable

- **Mass Termination** Terminating flat cable is done with the entire group of conductors as a unit, which is more efficient than working with individual conductors at one time.
- **Reliability** The simplicity of flat cable with its parallel conductor geometry eliminates many of the common sources of wiring error and malfunction. Registration of the conductors is one-to-one with the terminating connector or board so that proper contact assignment is almost automatic.
- **Space and Weight Reduction** The use of flat cable often eliminates much of the conventional wire weight and bulk. Such things as redundant insulating materials, fillers and tapes are not required. In addition, the composite flat cable construction is so mechanically strong that it is not necessary to have large conductors for strength. The copper cross-section can thus be reduced to what's required to carry the current load or to satisfy voltage drop requirements.
- **Flexibility** Flat cable is extremely flexible when bent in the plane of its thin cross-section. This flexibility has been utilized in applications where continuous or high flexing is necessary, e.g. drawers, doors, rotating arms, etc.
- **Greater Strength** Strength is enhanced by the fact that all conductors and insulation equally share tensile loads.
- **Consistent Electrical Characteristics** Because the conductor spacing is fixed and the geometry of the cable is constant, the electrical characteristics, such as impedance, capacitance, inductance, time delay, crosstalk and attenuation, are consistent.
- **Greater Current Carrying Capacity** Flat cables have greater surface-to-volume ratio than their round cable counterparts, consequently having higher efficiency in dissipating heat. This allows a higher current level for a given temperature rise and conductor cross-section.

- **Reduced Skewing Effects** Due to the conductors having the exact physical and electrical length, along with a continuous and consistent dielectric, time delays between signals within a given flat cable are minimized.
- **High-Density Interconnections** The cabling density achievable using flat cable is superior to that using conventional cable because of the high wire-to-cable cross-sectional density. Layers of flat cable are more effectively packed for higher conductor density than round cable.
- **Ease of Handling** Flat cable folds and bends readily, conforms to the mounting area, fastens easily with clamps, adhesive, or double-faced tape, and eliminates the installation and lacing difficulties associated with round wire cabling. Visible conductors in a fixed position within the dielectric simplify coding, inspection and circuit tracing.

### Flat Cable Packaging

Packaging of flat cable is offered in one or more of the following configurations, as noted in the Physical Specifications table for each product:

- 100: 100' put-up in a cardboard container. May contain more than one piece.
- H100: A one-piece 100' length, in a cardboard container.
- H300: A one-piece 300' length, in a cardboard container.
- R300: A one-piece 300' length put-up on a reel. It is designed for use by assemblers who use automated terminating equipment. An additional feature is the 9" inner tail exposed through the flange. This enables users to terminate the cable end to a device, which is necessary for in-line testing.

Note: Material on this page obtained from and printed with the permission of the Institute for Interconnecting and Packaging Electronic Circuits (IPC).



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1-800-527-0010

## Gray Ribbon 9L300XX Series

.025" Pitch, 30 AWG, PVC

### Product Description

Belden's miniaturized .025" pitch extruded gray ribbon cable provides higher signal density, greater design flexibility, and an alternative to the expensive Teflon® transmission cables. The cable is manufactured to precise tolerances which allows for mass-termination to standard .050" contact IDC connectors while assuring consistent and reliable electrical characteristics. With the miniaturization of the interconnects, significant reduction in components can be achieved. The cable is constructed of stranded 30 AWG (7x38) tinned copper conductors. Insulation material consists of Gray PVC, with a Red polarity stripe for proper circuit alignment. Standard conductor counts are 26 and 50; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Gray with Red polarity stripe.

**Application:** Internal interconnection or internal wiring of electronic equipment.

### Physical Specifications

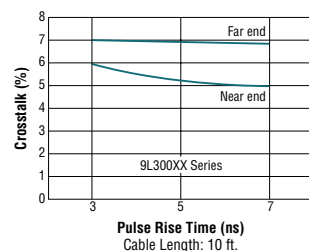
|                            |                                             |
|----------------------------|---------------------------------------------|
| <b>Conductor</b>           | 30 AWG (7x38) Tinned Copper                 |
| <b>Insulation</b>          | .0075" Nom. Wall Gray PVC                   |
| <b>Pitch</b>               | .025" $\pm$ .002"                           |
| <b>Temperature Rating</b>  | -40 to +105°C                               |
| <b>Flammability Rating</b> | UL: VW-1, CSA: FT1                          |
| <b>UL Approval</b>         | File #E12683, Style 2678                    |
| <b>CSA Approval</b>        | File #LL7874, CSA AWM I A<br>105°C 150V FT1 |
| <b>Packaging</b>           | H100, H300                                  |

### Electrical Specifications

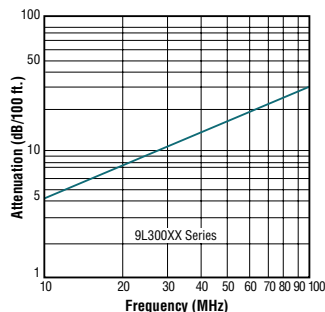
|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Voltage Rating</b>         | 150V RMS                                     |
| <b>Current Rating</b>         | .5A                                          |
| <b>Conductor Resistance</b>   | 108 $\Omega$ /1000 ft.                       |
| <b>Insulation Resistance</b>  | >1 x 10 <sup>10</sup> $\Omega$ • 10 ft. (3m) |
| <b>Impedance*</b>             | 70 $\Omega$                                  |
| <b>Capacitance*</b> (@ 1 MHz) | 24 pF/ft. (79 pF/m)                          |
| <b>Inductance*</b> (@ 1 MHz)  | .14 $\mu$ H/ft. (.46 $\mu$ H/m)              |
| <b>Propagation Delay*</b>     | 1.52 ns/ft. (4.96 ns/m)                      |

\*Test Configuration: G-S-G (ground-signal-ground).

### Unbalanced Crosstalk



### Attenuation

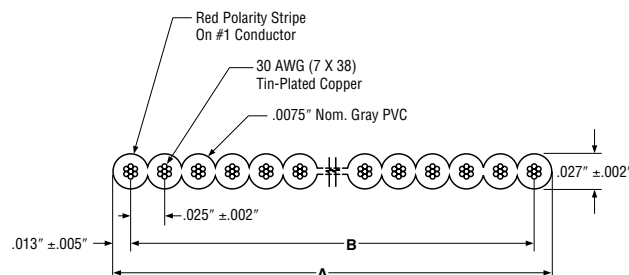


Teflon is a DuPont trademark.

| Part No.        | No. of Cond. | Dimensions       |                 |                  |                 |
|-----------------|--------------|------------------|-----------------|------------------|-----------------|
|                 |              | Width "A"        |                 | Span "B"         |                 |
|                 |              | Inch             | mm              | Inch             | mm              |
| <b>9L30026</b>  | 26           | .650 $\pm$ .010  | 16.51 $\pm$ .25 | .625 $\pm$ .007  | 15.88 $\pm$ .18 |
| <b>9L30050†</b> | 50           | 1.250 $\pm$ .011 | 31.75 $\pm$ .28 | 1.225 $\pm$ .009 | 31.12 $\pm$ .23 |

†Available in H100 packaging only.

### Dimensions



## Gray Ribbon 2L280XX Series

1mm Pitch, 28 AWG, PVC

### Product Description

Belden's 1mm (.03937" pitch) extruded gray ribbon cable was designed for the disk drive market where the 2mm IDC connector is widely used. The cable provides improved space reduction, easy breakouts for circuit routing, and maintains the current carrying capacity required for these applications. In addition, the electrical performance meets those requirements specified by the SCSI-3 parallel interface document. The cable is constructed of stranded 28 AWG (7x36) tinned copper conductors. Insulation material consists of Gray PVC, with a Black polarity stripe for proper circuit alignment. Standard conductor counts are 26, 34, 40, 44 and 50; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Gray with Black polarity stripe.

**Application:** Internal interconnection or internal wiring of electronic equipment.

### Physical Specifications

|                            |                                          |
|----------------------------|------------------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Tinned Copper              |
| <b>Insulation</b>          | .010" Nom. Wall Gray PVC                 |
| <b>Pitch</b>               | 1mm $\pm$ 0.51mm (.0394" $\pm$ .002")    |
| <b>Temperature Rating</b>  | -40 to +105°C                            |
| <b>Flammability Rating</b> | UL: VW-1; CSA: FT1                       |
| <b>UL Approval</b>         | File #E12683, Style 2651                 |
| <b>CSA Approval</b>        | File #LL7874, CSA AWM I A 105°C 300V FT1 |
| <b>Packaging</b>           | H100, R300                               |

### Electrical Specifications

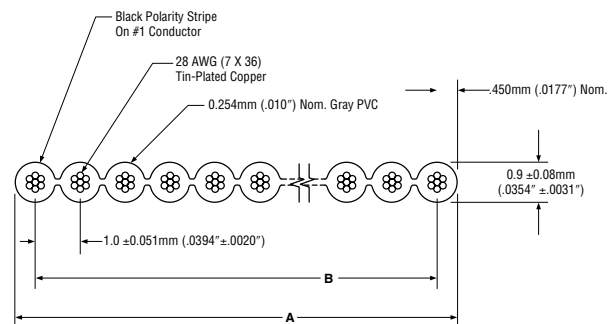
|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Voltage Rating</b>         | 300V RMS                                    |
| <b>Current Rating</b>         | 1A                                          |
| <b>Conductor Resistance</b>   | 68 $\Omega$ /1000 ft.                       |
| <b>Insulation Resistance</b>  | $>1 \times 10^{10}\Omega \cdot 10$ ft. (3m) |
| <b>Impedance*</b>             | 90 $\Omega$                                 |
| <b>Capacitance*</b> (@ 1 MHz) | 16.5 pF/ft. (54 pF/m)                       |
| <b>Inductance*</b> (@ 1 MHz)  | .16 $\mu$ H/ft. (.52 $\mu$ H/m)             |
| <b>Propagation Delay*</b>     | 1.47 ns/ft. (4.8 ns/m)                      |

\*Test Configuration: G-S-G (ground-signal-ground).

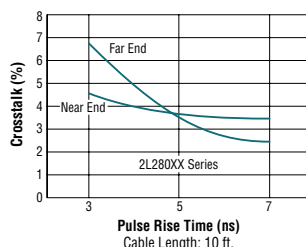
| Part No.         | No. of Cond. | Dimensions       |                |                  |                |
|------------------|--------------|------------------|----------------|------------------|----------------|
|                  |              | Width "A"        |                | Span "B"         |                |
|                  |              | Inch             | mm             | Inch             | mm             |
| <b>2L28026**</b> | 26           | 1.020 $\pm$ .008 | 25.9 $\pm$ .20 | .984 $\pm$ .008  | 25.0 $\pm$ .20 |
| <b>2L28034**</b> | 34           | 1.335 $\pm$ .012 | 33.9 $\pm$ .30 | 1.299 $\pm$ .012 | 33.0 $\pm$ .30 |
| <b>2L28040**</b> | 40           | 1.571 $\pm$ .012 | 39.9 $\pm$ .30 | 1.535 $\pm$ .012 | 39.0 $\pm$ .30 |
| <b>2L28044**</b> | 44           | 1.728 $\pm$ .012 | 43.9 $\pm$ .30 | 1.693 $\pm$ .012 | 43.0 $\pm$ .30 |
| <b>2L28050</b>   | 50           | 1.965 $\pm$ .012 | 49.9 $\pm$ .30 | 1.929 $\pm$ .012 | 49.0 $\pm$ .30 |

\*\*Available in H100 packaging only.

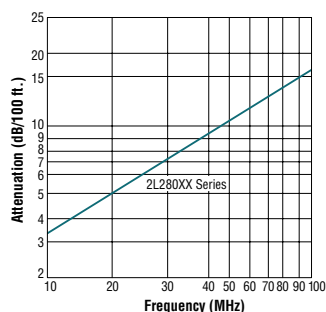
### Dimensions



### Unbalanced Crosstalk\*



### Attenuation\*



By: **INTERSTATEWIRE**  
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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

## Gray Ribbon 9L280XX Series

.050" Pitch, 28 AWG, PVC (available in MIL-C-49055/1)

### Product Description

Belden's (9L280XX Series) .050" pitch extruded gray ribbon cable was designed for general purpose electronic interconnect applications. The cable provides reliable mass-termination to standard .100" contact IDC connectors, flexibility, consistent electricals and break-outs can be made easily with the tear feature design. The cable is constructed of stranded 28 AWG (7x36) tinned copper conductors. Insulation material consists of Gray PVC, with a Red polarity stripe for proper circuit alignment. Various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Gray with Red polarity stripe (standard), Gray with Black polarity stripe (MIL-C-49055/1).

**Application:** Internal interconnection or internal wiring of electronic equipment.

### Physical Specifications

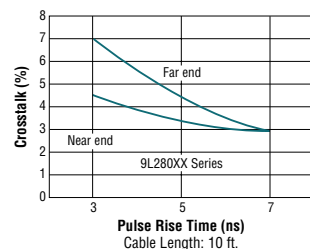
|                            |                                          |
|----------------------------|------------------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Tinned Copper              |
| <b>Insulation</b>          | .010" Nom. Wall Gray PVC                 |
| <b>Pitch</b>               | .050" $\pm$ .002"                        |
| <b>Temperature Rating</b>  | -40 to +105°C                            |
| <b>Flammability Rating</b> | UL: VW-1; CSA: FT1                       |
| <b>UL Approval</b>         | File #E12683, Style 2651                 |
| <b>CSA Approval</b>        | File #LL7874, CSA AWM I A 105°C 300V FT1 |
| <b>Packaging</b>           | H100, H300, R300                         |

### Electrical Specifications

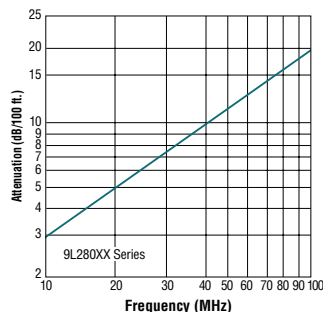
|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Voltage Rating</b>         | 300V RMS                                     |
| <b>Current Rating</b>         | 1A                                           |
| <b>Conductor Resistance</b>   | 68 $\Omega$ /1000 ft.                        |
| <b>Insulation Resistance</b>  | >1 x 10 <sup>10</sup> $\Omega$ • 10 ft. (3m) |
| <b>Impedance*</b>             | 105 $\Omega$                                 |
| <b>Capacitance*</b> (@ 1 MHz) | 15 pF/ft. (49 pF/m)                          |
| <b>Inductance*</b> (@ 1 MHz)  | .20 $\mu$ H/ft. (.66 $\mu$ H/m)              |
| <b>Propagation Delay*</b>     | 1.40 ns/ft. (4.6 ns/m)                       |

\*Test Configuration: G-S-G (ground-signal-ground).

### Unbalanced Crosstalk\*



### Attenuation\*

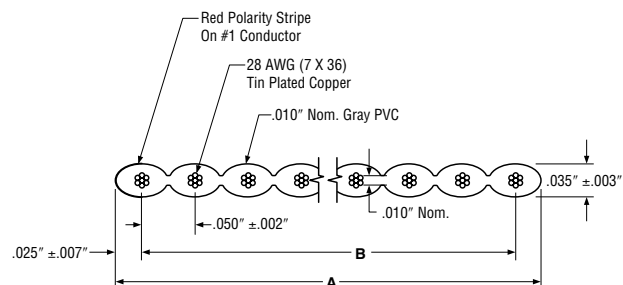


| Part No.  | Standard<br>(UL & CSA) | MIL-C-49055/1<br>(QPL)<br>(Designation) | No.<br>of<br>Cond. | Dimensions      |                 |                 |                 |
|-----------|------------------------|-----------------------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|
|           |                        |                                         |                    | Width "A"       |                 | Span "B"        |                 |
|           |                        |                                         |                    | Inch            | mm              | Inch            | mm              |
| 9L28009   |                        | YP-3289<br>(M49055/1-01)                | 9                  | .45 $\pm$ .008  | 11.43 $\pm$ .20 | .40 $\pm$ .008  | 10.16 $\pm$ .20 |
| 9L28010   |                        | YP-3290<br>(M49055/1-02)                | 10                 | .50 $\pm$ .008  | 12.70 $\pm$ .20 | .45 $\pm$ .008  | 11.43 $\pm$ .20 |
| 9L28014†  |                        | YP-3291<br>(M49055/1-03)                | 14                 | .70 $\pm$ .008  | 17.78 $\pm$ .20 | .65 $\pm$ .008  | 16.51 $\pm$ .20 |
| 9L28015** |                        | YP-3292<br>(M49055/1-04)                | 15                 | .75 $\pm$ .008  | 19.05 $\pm$ .20 | .70 $\pm$ .008  | 17.78 $\pm$ .20 |
| 9L28016   |                        | YP-3293<br>(M49055/1-05)                | 16                 | .80 $\pm$ .008  | 20.32 $\pm$ .20 | .75 $\pm$ .008  | 19.05 $\pm$ .20 |
| 9L28020   |                        | YP-3294<br>(M49055/1-06)                | 20                 | 1.00 $\pm$ .008 | 25.40 $\pm$ .20 | .95 $\pm$ .008  | 24.13 $\pm$ .20 |
| 9L28024†  |                        | YP-3295<br>(M49055/1-07)                | 24                 | 1.20 $\pm$ .008 | 30.48 $\pm$ .20 | 1.15 $\pm$ .008 | 29.21 $\pm$ .20 |
| 9L28025   |                        | YP-3296<br>(M49055/1-08)                | 25                 | 1.25 $\pm$ .008 | 31.75 $\pm$ .20 | 1.20 $\pm$ .008 | 30.48 $\pm$ .20 |
| 9L28026   |                        | YP-3297<br>(M49055/1-09)                | 26                 | 1.30 $\pm$ .008 | 33.02 $\pm$ .20 | 1.25 $\pm$ .008 | 31.75 $\pm$ .20 |
| 9L28034   |                        | YP-3298<br>(M49055/1-10)                | 34                 | 1.70 $\pm$ .008 | 43.18 $\pm$ .20 | 1.65 $\pm$ .008 | 41.91 $\pm$ .20 |
| 9L28036** |                        | —                                       | 36                 | 1.80 $\pm$ .012 | 45.72 $\pm$ .30 | 1.75 $\pm$ .012 | 44.45 $\pm$ .30 |
| 9L28037** |                        | YP-3299<br>(M49055/1-11)                | 37                 | 1.85 $\pm$ .012 | 46.99 $\pm$ .30 | 1.80 $\pm$ .012 | 45.72 $\pm$ .30 |
| 9L28040   |                        | YP-3300<br>(M49055/1-12)                | 40                 | 2.00 $\pm$ .012 | 50.80 $\pm$ .30 | 1.95 $\pm$ .012 | 49.53 $\pm$ .30 |
| 9L28050   |                        | YP-3301<br>(M49055/1-13)                | 50                 | 2.50 $\pm$ .012 | 63.50 $\pm$ .30 | 2.45 $\pm$ .012 | 62.23 $\pm$ .30 |
| 9L28060   |                        | YP-3302<br>(M49055/1-14)                | 60                 | 3.00 $\pm$ .012 | 76.20 $\pm$ .30 | 2.95 $\pm$ .012 | 74.93 $\pm$ .30 |
| 9L28064   |                        | YP-3303<br>(M49055/1-15)                | 64                 | 3.20 $\pm$ .012 | 81.28 $\pm$ .30 | 3.15 $\pm$ .012 | 80.01 $\pm$ .30 |

\*\*Available in H100 packaging only.

† Not available in R300 packaging.

### Dimensions



## Gray Ribbon 9L260XX Series

.050" Pitch, 26 AWG, PVC (available in MIL-C-49055/1)

### Product Description

Belden's (9L260XX series) .050" pitch extruded gray ribbon cable was designed for general purpose electronic interconnect applications where higher current carrying capacities are required. The design also conforms to the electrical performance specifications outlined by the SCSI-3 parallel interface document. As with the 9L280XX series, the cable provides reliable mass-termination to standard .100" contact IDC connectors, flexibility, consistent electricals and breakouts can be made easily with the tear feature design. In addition, the overall cable thickness is only .038"  $\pm$  .002" allowing mateability with all standard IDC connectors. The cable is constructed of stranded 26 AWG (7x34) tinned copper conductors. Insulation material consists of Gray PVC, with a Blue polarity stripe for proper circuit alignment. Various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Gray with Blue polarity stripe (standard), Gray with Black polarity stripe (MIL-C-49055/1).

**Application:** Internal interconnection or internal wiring of electronic equipment.

### Physical Specifications

|                            |                                             |
|----------------------------|---------------------------------------------|
| <b>Conductor</b>           | 26 AWG (7x34) Tinned Copper                 |
| <b>Insulation</b>          | .010" Nom. Wall Gray PVC                    |
| <b>Pitch</b>               | .050" $\pm$ .002"                           |
| <b>Temperature Rating</b>  | -40 to +105°C                               |
| <b>Flammability Rating</b> | UL: VW-1; CSA: FT1                          |
| <b>UL Approval</b>         | File #E12683, Style 2651                    |
| <b>CSA Approval</b>        | File #LL7874, CSA AWM I A<br>105°C 300V FT1 |
| <b>Packaging</b>           | H100, H300, R300                            |

### Electrical Specifications

|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Voltage Rating</b>         | 300V RMS                                     |
| <b>Current Rating</b>         | 1.5A                                         |
| <b>Conductor Resistance</b>   | 43 $\Omega$ /1000 ft.                        |
| <b>Insulation Resistance</b>  | >1 x 10 <sup>10</sup> $\Omega$ • 10 ft. (3m) |
| <b>Impedance*</b>             | 90 $\Omega$                                  |
| <b>Capacitance* (@ 1 MHz)</b> | 18 pF/ft. (55 $\mu$ H/m)                     |
| <b>Inductance* (@ 1 MHz)</b>  | .15 $\mu$ H/ft. (.49 $\mu$ H/m)              |
| <b>Propagation Delay*</b>     | 1.48 ns/ft. (4.85 ns/m)                      |

\*Test Configuration: G-S-G (ground-signal-ground).

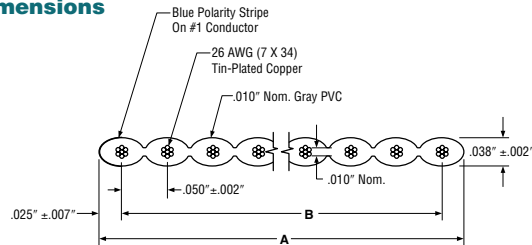
| Part No.  | Standard<br>(UL & CSA) | MIL-C-49055/1<br>(QPL)<br>(Designation) | No.<br>of<br>Cond. | Dimensions      |                 |                 |                 |
|-----------|------------------------|-----------------------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|
|           |                        |                                         |                    | Width "A"       |                 | Span "B"        |                 |
|           |                        |                                         |                    | Inch            | mm              | Inch            | mm              |
| 9L26010   |                        | YP-3305<br>(M49055/1-17)                | 10                 | .50 $\pm$ .008  | 12.70 $\pm$ .20 | .45 $\pm$ .008  | 11.43 $\pm$ .20 |
| 9L26014†† |                        | YP-3306<br>(M49055/1-18)                | 14                 | .70 $\pm$ .008  | 17.78 $\pm$ .20 | .65 $\pm$ .008  | 16.51 $\pm$ .20 |
| 9L26016** |                        | YP-3308<br>(M49055/1-20)                | 16                 | .80 $\pm$ .008  | 20.32 $\pm$ .20 | .75 $\pm$ .008  | 19.05 $\pm$ .20 |
| 9L26020†† |                        | YP-3309<br>(M49055/1-21)                | 20                 | 1.0 $\pm$ .008  | 25.40 $\pm$ .20 | .95 $\pm$ .008  | 24.13 $\pm$ .20 |
| 9L26025** |                        | YP-3311<br>(M49055/1-23)                | 25                 | 1.25 $\pm$ .008 | 31.75 $\pm$ .20 | 1.20 $\pm$ .008 | 30.48 $\pm$ .20 |
| 9L26026†† |                        | YP-3312<br>(M49055/1-24)                | 26                 | 1.30 $\pm$ .008 | 33.02 $\pm$ .20 | 1.25 $\pm$ .008 | 31.75 $\pm$ .20 |
| 9L26034** |                        | YP-3313<br>(M49055/1-25)                | 34                 | 1.70 $\pm$ .008 | 43.18 $\pm$ .20 | 1.65 $\pm$ .008 | 41.91 $\pm$ .20 |
| 9L26040†  |                        | YP-3315<br>(M49055/1-27)                | 40                 | 2.00 $\pm$ .012 | 50.80 $\pm$ .30 | 1.95 $\pm$ .012 | 49.53 $\pm$ .30 |
| 9L26044** |                        | —                                       | 44                 | 2.20 $\pm$ .012 | 55.88 $\pm$ .30 | 2.15 $\pm$ .012 | 54.61 $\pm$ .30 |
| 9L26068** |                        | —                                       | 68                 | 3.40 $\pm$ .012 | 86.36 $\pm$ .30 | 3.35 $\pm$ .012 | 85.09 $\pm$ .30 |

\*\*Available in H100 packaging only.

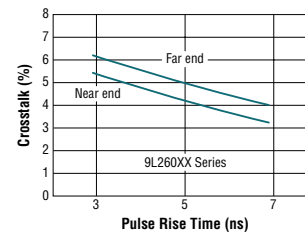
† Not available in H300 packaging.

†† Not available in R300 packaging.

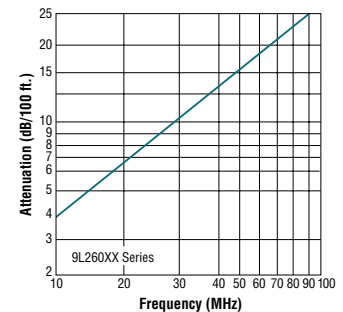
### Dimensions



### Unbalanced Crosstalk\*



### Attenuation\*



## Rainbow 9R280XX Series

.050" Pitch, 28 AWG, Color-coded PVC

### Product Description

Belden's .050" pitch, color-coded PVC flat cable allows for quick identification and circuit tracing, along with easy breakouts for circuit routing. Designed for mass-termination with standard IDC connectors. The cable is constructed of stranded 28 AWG (7x36) tinned copper conductors, color-coded PVC preinsulated singles — laminated to a single clear PVC substrate. Fourteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black. Sequence is repeated as necessary.

**Application:** Internal interconnection or internal wiring of electrical equipment.

### Physical Specifications

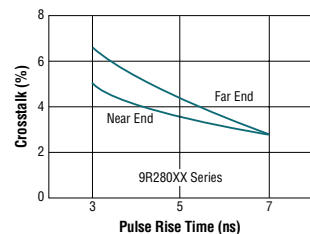
|                            |                                 |
|----------------------------|---------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Tinned Copper     |
| <b>Insulation</b>          | .010" Nom. Wall Color-coded PVC |
| <b>Substrate</b>           | .010" Nom. Wall Clear PVC       |
| <b>Pitch</b>               | .050" $\pm$ .005"               |
| <b>Temperature Rating</b>  | -20 to +105°C                   |
| <b>Flammability Rating</b> | UL: VW-1                        |
| <b>UL Approval</b>         | File #E12663, Style 2884        |
| <b>CSA Approval</b>        | Available upon request          |
| <b>Packaging</b>           | 100                             |

### Electrical Specifications

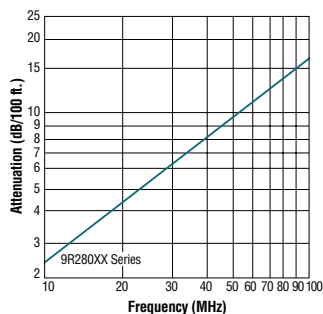
|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Voltage Rating</b>         | 300V RMS                                     |
| <b>Current Rating</b>         | 1A                                           |
| <b>Conductor Resistance</b>   | 68 $\Omega$ /1000 ft.                        |
| <b>Insulation Resistance</b>  | >1 x 10 <sup>10</sup> $\Omega$ • 10 ft. (3m) |
| <b>Impedance*</b>             | 105 $\Omega$                                 |
| <b>Capacitance*</b> (@ 1 MHz) | 15 pF/ft. (49 pF/m)                          |
| <b>Inductance*</b> (@ 1 MHz)  | .20 $\mu$ H/ft. (.66 $\mu$ H/m)              |
| <b>Propagation Delay*</b>     | 1.4 ns/ft. (4.6 ns/m)                        |

\*Test Configuration: G-S-G (ground-signal-ground).

### Unbalanced Crosstalk\*

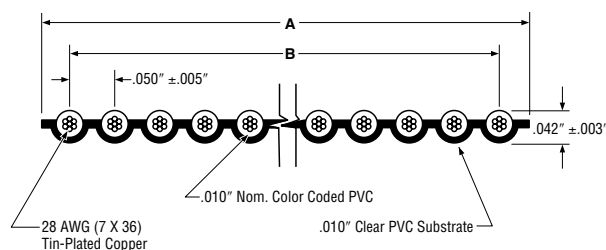


### Attenuation\*



| Part No.       | No. of Cond. | Dimensions |       |                 |                 |
|----------------|--------------|------------|-------|-----------------|-----------------|
|                |              | Width "A"  |       | Span "B"        |                 |
|                |              | Inch       | mm    | Inch            | mm              |
| <b>9R28010</b> | 10           | .50        | 12.70 | .45 $\pm$ .007  | 11.43 $\pm$ .18 |
| <b>9R28014</b> | 14           | .70        | 17.78 | .65 $\pm$ .007  | 16.51 $\pm$ .18 |
| <b>9R28016</b> | 16           | .80        | 20.32 | .75 $\pm$ .011  | 19.50 $\pm$ .28 |
| <b>9R28020</b> | 20           | 1.00       | 25.40 | .95 $\pm$ .011  | 24.13 $\pm$ .28 |
| <b>9R28024</b> | 24           | 1.20       | 30.48 | 1.15 $\pm$ .011 | 29.21 $\pm$ .28 |
| <b>9R28025</b> | 25           | 1.25       | 31.75 | 1.20 $\pm$ .011 | 30.48 $\pm$ .28 |
| <b>9R28026</b> | 26           | 1.30       | 33.02 | 1.25 $\pm$ .011 | 31.75 $\pm$ .28 |
| <b>9R28034</b> | 34           | 1.70       | 43.18 | 1.65 $\pm$ .011 | 41.91 $\pm$ .28 |
| <b>9R28036</b> | 36           | 1.80       | 45.72 | 1.75 $\pm$ .015 | 44.45 $\pm$ .38 |
| <b>9R28037</b> | 37           | 1.85       | 46.99 | 1.80 $\pm$ .015 | 45.72 $\pm$ .38 |
| <b>9R28040</b> | 40           | 2.00       | 50.80 | 1.95 $\pm$ .015 | 49.53 $\pm$ .38 |
| <b>9R28050</b> | 50           | 2.50       | 63.50 | 2.45 $\pm$ .015 | 62.23 $\pm$ .38 |
| <b>9R28060</b> | 60           | 3.00       | 76.20 | 2.95 $\pm$ .015 | 74.93 $\pm$ .38 |
| <b>9R28064</b> | 64           | 3.20       | 81.28 | 3.15 $\pm$ .020 | 80.01 $\pm$ .51 |

### Dimensions



## Rainbow 8R280XX Series

.050" Pitch, 28 AWG, Color-coded FEP (High Temperature)

### Product Description

Belden's .050" pitch, color-coded FEP flat cable allows for high and low temperature, low out-gassing and chemical resistant applications, improved electricals, and provides quick identification and circuit tracing, along with easy breakouts for circuit routing. Designed for mass-termination with standard IDC connectors, the cable is constructed of stranded 28 AWG (7x36) silver-plated copper conductors, color-coded FEP pre-insulated singles — laminated to a single clear FEP substrate. Thirteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved and passes the IEEE 383, 70,000 BTU Flame Test.

**Color Code:** Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black. Sequence is repeated as necessary.

**Application:** Internal wiring of appliances or electronic equipment. May be additionally marked "For 300V Peak Electronic Use Only."

### Physical Specifications

|                            |                                    |
|----------------------------|------------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Silver-plated Copper |
| <b>Insulation</b>          | .010" Nom. Wall Color-coded FEP    |
| <b>Substrate</b>           | .010" Nom. Wall Clear FEP          |
| <b>Pitch</b>               | .050" $\pm$ .005"                  |
| <b>Temperature Rating</b>  | -70 to +150°C                      |
| <b>Flammability Rating</b> | UL: VW-1; IEEE: 383<br>70,000 BTU  |
| <b>UL Approval</b>         | File #E12683, Style 20468          |
| <b>Packaging</b>           | 100                                |

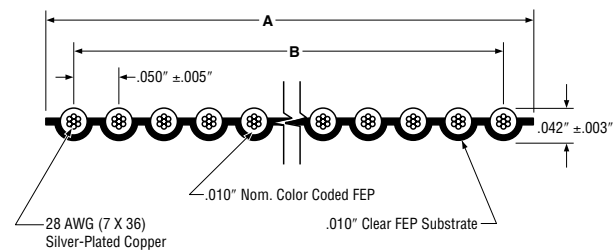
### Electrical Specifications

|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Voltage Rating</b>         | 150V RMS                                     |
| <b>Current Rating</b>         | 1A                                           |
| <b>Conductor Resistance</b>   | 68 $\Omega$ /1000 ft.                        |
| <b>Insulation Resistance</b>  | >1 x 10 <sup>11</sup> $\Omega$ • 10 ft. (3m) |
| <b>Impedance*</b>             | 120 $\Omega$                                 |
| <b>Capacitance*</b> (@ 1 MHz) | 10.5 pF/ft. (34.4 pF/m)                      |
| <b>Inductance*</b> (@ 1 MHz)  | .18 $\mu$ H/ft. (.59 $\mu$ H/m)              |
| <b>Propagation Delay*</b>     | 1.3 ns/ft. (4.3 ns/m)                        |

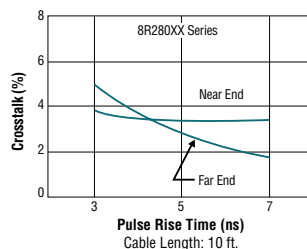
\*Test Configuration: G-S-G (ground-signal-ground).

| Part No. | No. of Cond. | Dimensions |       |                 |                 |
|----------|--------------|------------|-------|-----------------|-----------------|
|          |              | Width "A"  |       | Span "B"        |                 |
|          |              | Inch       | mm    | Inch            | mm              |
| 8R28010  | 10           | .50        | 12.70 | .45 $\pm$ .007  | 11.43 $\pm$ .18 |
| 8R28014  | 14           | .70        | 17.78 | .65 $\pm$ .007  | 16.51 $\pm$ .18 |
| 8R28016  | 16           | .80        | 20.32 | .75 $\pm$ .011  | 19.05 $\pm$ .28 |
| 8R28020  | 20           | 1.00       | 25.40 | .95 $\pm$ .011  | 24.13 $\pm$ .28 |
| 8R28025  | 25           | 1.25       | 31.75 | 1.20 $\pm$ .011 | 30.48 $\pm$ .28 |
| 8R28026  | 26           | 1.30       | 33.02 | 1.25 $\pm$ .011 | 31.75 $\pm$ .28 |
| 8R28034  | 34           | 1.70       | 43.18 | 1.65 $\pm$ .011 | 41.91 $\pm$ .28 |
| 8R28036  | 36           | 1.80       | 45.72 | 1.75 $\pm$ .015 | 44.45 $\pm$ .38 |
| 8R28037  | 37           | 1.85       | 46.99 | 1.80 $\pm$ .015 | 45.72 $\pm$ .38 |
| 8R28040  | 40           | 2.00       | 50.80 | 1.95 $\pm$ .015 | 49.53 $\pm$ .38 |
| 8R28050  | 50           | 2.50       | 63.50 | 2.45 $\pm$ .015 | 62.23 $\pm$ .38 |
| 8R28060  | 60           | 3.00       | 76.20 | 2.95 $\pm$ .015 | 74.93 $\pm$ .38 |
| 8R28064  | 64           | 3.20       | 81.28 | 3.15 $\pm$ .020 | 80.01 $\pm$ .51 |

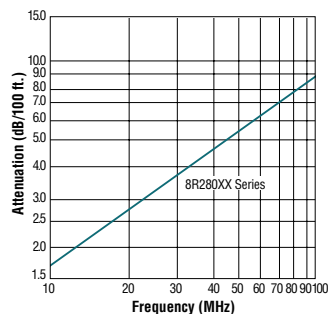
### Dimensions



### Unbalanced Crosstalk\*



### Attenuation\*



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**1-800-527-0010**



## Vari-Twist® 9V280XX Series

.050" Pitch, 28 AWG, PVC

### Product Description

Belden's PVC Vari-Twist 9V280XX series was designed to reduce crosstalk in the balanced mode by twisting the pairs, but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of .050" spaced conductors. The cable consists of stranded 28 AWG (7x36) tinned copper, color-coded PVC preinsulated singles — laminated to a single clear PVC substrate. Eleven various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

**Color Code:** Each pair consists of a Tan conductor paired with a color-coded conductor. *Color Sequence Each Terminating Section:* Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Violet/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

**Application:** Internal interconnection or internal wiring of electronic equipment.

### Physical Specifications

|                            |                                            |
|----------------------------|--------------------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Tinned Copper                |
| <b>Insulation</b>          | .010" Nom. Wall Color-coded PVC            |
| <b>Substrate</b>           | .010" Nom. Wall Clear PVC                  |
| <b>Pitch</b>               |                                            |
| Twisted Pair Centers:      | .100" Nom.                                 |
| Conductor Centers in Flat: | .050" ±.005"                               |
| <b>Pairs</b>               | 1/2" Nom. Lay                              |
|                            | Adjacent Pairs have Opposite Direction Lay |
| <b>Construction</b>        | 18" of Twisted Pairs                       |
|                            | 2" of Flat Section                         |
| <b>Temperature Rating</b>  | -20 to +105°C                              |
| <b>Flammability Rating</b> | UL: VW-1                                   |
| <b>UL Approval</b>         | File #E12683,                              |
|                            | Style Dual Rated 2693 & 2697               |
| <b>CSA Approval</b>        | Available Upon Request                     |
| <b>Packaging</b>           | H100                                       |

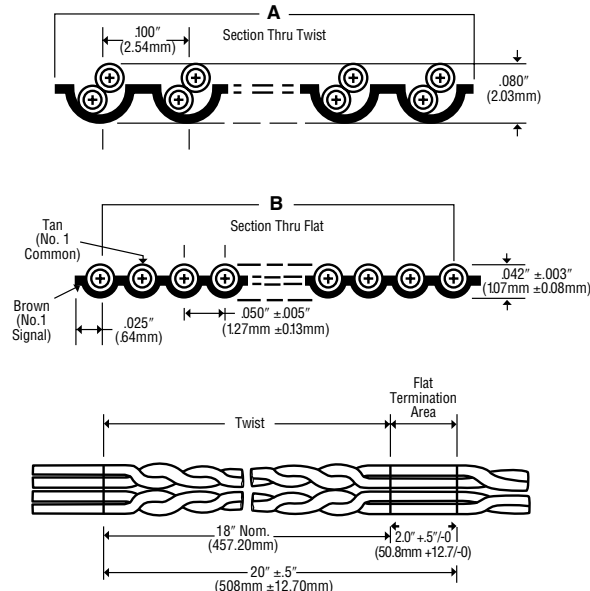
### Electrical Specifications

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Voltage Rating</b>          | 300V RMS                              |
| <b>Current Rating</b>          | 1A                                    |
| <b>Conductor Resistance</b>    | 68Ω/1000 ft.                          |
| <b>Insulation Resistance</b>   | >1 x 10 <sup>10</sup> Ω • 10 ft. (3m) |
| <b>Impedance (Balanced)</b>    | 115Ω                                  |
| <b>Impedance* (Unbalanced)</b> | 100Ω                                  |
| <b>Capacitance* (@ 1 MHz)</b>  | 16 pF/ft. (52 pF/m)                   |
| <b>Inductance* (@ 1 MHz)</b>   | .24 μH/ft. (.79 μH/m)                 |
| <b>Propagation Delay*</b>      | 1.6 ns/ft. (5.25 ns/m)                |

\*Test Configuration: G-S (ground-signal), unbalanced.

| Part No. | No. of Pairs | Dimensions |       |            |            |
|----------|--------------|------------|-------|------------|------------|
|          |              | Width "A"  |       | Span "B"   |            |
|          |              | Inch       | mm    | Inch       | mm         |
| 9V28010  | 5            | .50        | 12.70 | .45 ±.012  | 11.43 ±.30 |
| 9V28014  | 7            | .70        | 17.78 | .65 ±.012  | 16.51 ±.30 |
| 9V28016  | 8            | .80        | 20.32 | .75 ±.012  | 19.05 ±.30 |
| 9V28020  | 10           | 1.00       | 25.40 | .95 ±.015  | 24.13 ±.38 |
| 9V28026  | 13           | 1.30       | 33.02 | 1.25 ±.015 | 31.75 ±.38 |
| 9V28034  | 17           | 1.70       | 43.18 | 1.65 ±.015 | 41.91 ±.38 |
| 9V28036  | 18           | 1.80       | 45.72 | 1.75 ±.017 | 44.45 ±.43 |
| 9V28040  | 20           | 2.00       | 50.80 | 1.95 ±.017 | 49.53 ±.43 |
| 9V28050  | 25           | 2.50       | 63.50 | 2.45 ±.017 | 62.23 ±.43 |
| 9V28060  | 30           | 3.00       | 76.20 | 2.95 ±.020 | 74.93 ±.51 |
| 9V28064  | 32           | 3.20       | 81.28 | 3.15 ±.020 | 80.01 ±.51 |

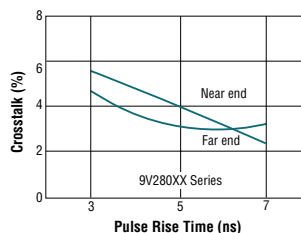
### Dimensions



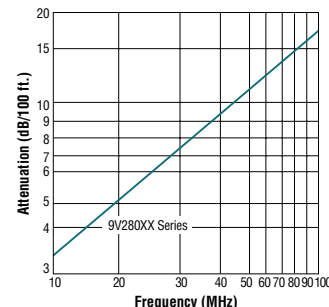
NOTE: the transition area is included in the twisted section to assure a full 2 inches of .050" termination area.

### Unbalanced Crosstalk\*

(See page 7.14 for Balanced Crosstalk)



### Attenuation\*





## Vari-Twist® 8V280XX Series

.050" Pitch, 28 AWG, FEP (High Temperature)

### Product Description

Belden's FEP Vari-Twist 8V280XX series allows for high and low temperature, low out-gassing, and chemical resistant applications, improved electricals, and provides quick identification and circuit tracing. The cable was designed to reduce crosstalk in the balanced mode by twisting the pairs but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of .050" spaced conductors. The cable consists of stranded 28 AWG (7x36) silver-plated copper, color-coded FEP preinsulated singles — laminated to a single clear FEP substrate. Eight various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved and passes the IEEE 383 70,000 BTU Flame Test.

Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

**Color Code:** Each pair consists of a Tan conductor paired with a color-coded conductor. *Color Sequence Each Terminating Section:* Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Violet/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

**Application:** Internal wiring of appliances or electronic equipment. May be additionally marked "For 300V Peak Electronic Use Only."

### Physical Specifications

|                            |                                            |
|----------------------------|--------------------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Silver-plated Copper         |
| <b>Insulation</b>          | .010" Nom. Wall Color-coded FEP            |
| <b>Substrate</b>           | .010" Nom. Wall Clear FEP                  |
| <b>Pitch</b>               |                                            |
| Twisted Pair Centers:      | .100" Nom.                                 |
| Conductor Centers in Flat: | .050" ±.005"                               |
| <b>Pairs</b>               | 1/2" Nom. Lay                              |
|                            | Adjacent Pairs have Opposite Direction Lay |
| <b>Construction</b>        | 18" of Twisted Pairs                       |
|                            | 2" of Flat Section                         |
| <b>Temperature Rating</b>  | -70 to +150°C                              |
| <b>Flammability Rating</b> | UL: VW-1; IEEE 383<br>70,000 BTU           |
| <b>UL Approval</b>         | File #E12683, Style 20468                  |
| <b>Packaging</b>           | 100                                        |

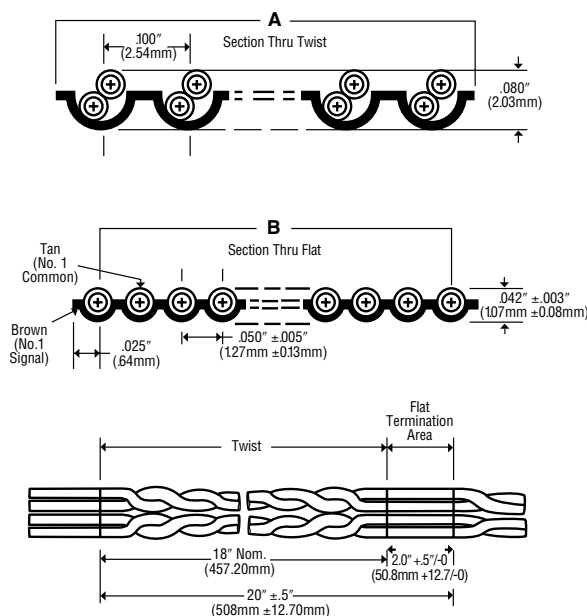
### Electrical Specifications

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Voltage Rating</b>          | 150V RMS                              |
| <b>Current Rating</b>          | 1A                                    |
| <b>Conductor Resistance</b>    | 68Ω/1000 ft.                          |
| <b>Insulation Resistance</b>   | >1 x 10 <sup>11</sup> Ω • 10 ft. (3m) |
| <b>Impedance (Balanced)</b>    | 145Ω                                  |
| <b>Impedance* (Unbalanced)</b> | 130Ω                                  |
| <b>Capacitance* (@ 1 MHz)</b>  | 10.6 pF/ft. (34.78 pF/m)              |
| <b>Inductance* (@ 1 MHz)</b>   | .22 μH/ft. (.72 μH/m)                 |
| <b>Propagation Delay*</b>      | 1.32 ns/ft. (4.33 ns/m)               |

\*Test Configuration: G-S (ground-signal), unbalanced.

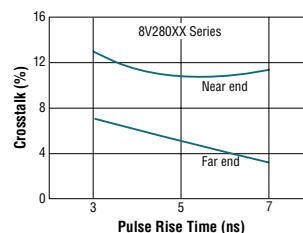
| Part No. | No. of Pairs | Dimensions |       |            |            |
|----------|--------------|------------|-------|------------|------------|
|          |              | Width "A"  |       | Span "B"   |            |
|          |              | Inch       | mm    | Inch       | mm         |
| 8V28010  | 5            | .50        | 12.70 | .45 ±.012  | 11.43 ±.30 |
| 8V28014  | 7            | .70        | 17.78 | .65 ±.012  | 16.51 ±.30 |
| 8V28020  | 10           | 1.00       | 25.40 | .95 ±.015  | 24.13 ±.38 |
| 8V28026  | 13           | 1.30       | 33.02 | 1.25 ±.015 | 31.75 ±.38 |
| 8V28034  | 17           | 1.70       | 43.18 | 1.65 ±.015 | 41.91 ±.38 |
| 8V28036  | 18           | 1.80       | 45.72 | 1.75 ±.017 | 44.45 ±.43 |
| 8V28040  | 20           | 2.00       | 50.80 | 1.95 ±.017 | 49.53 ±.43 |
| 8V28060  | 30           | 3.00       | 76.20 | 2.95 ±.020 | 74.93 ±.51 |

### Dimensions

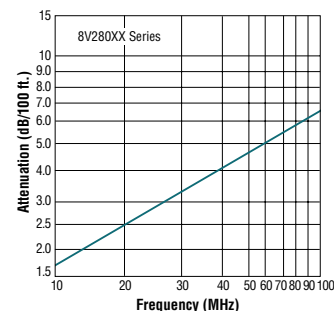


NOTE: the transition area is included in the twisted section to assure a full 2 inches of .050 inch termination area.

### Unbalanced Crosstalk\*



### Attenuation\*



By:



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1-800-527-0010

## Shielded Jacketed 9L283XX Series

.050" Pitch, 28 AWG, PVC

### Product Description

Belden's shielded jacketed 9L283XX series was designed to help meet the FCC EMI/RFI requirements. In addition, the cable provides shielding from external electrical interference along with excellent crosstalk attenuation. The thin extruded jacket allows for greater flexibility, ease of termination, and reduced space requirements, while providing exterior protection from the environment. The core cable is Belden's 9L280XX PVC series allowing easy termination to any standard IDC connector. All cables are 100% shielded with a Duofoil® shield (aluminum/polyester/aluminum) and can be terminated with the two 28 AWG drain wires. Thirteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Gray with Red polarity stripe.

**Application:** External interconnection or internal wiring of electronic equipment.

### Physical Specifications

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Tinned Copper                     |
| <b>Insulation</b>          | .010" Nom. Wall Gray PVC                        |
| <b>Pitch</b>               | .050" $\pm$ .002"                               |
| <b>Shielding</b>           | Duofoil Shield<br>(Aluminum/Polyester/Aluminum) |
| <b>Drain Wires</b>         | Two 28 AWG (7x36) Tinned Copper                 |
| <b>Jacket</b>              | .038" Nom. Wall Black PVC                       |
| <b>Temperature Rating</b>  | -20 to +105°C                                   |
| <b>Flammability Rating</b> | UL: VW-1; CSA: FT1                              |
| <b>UL Approval</b>         | File #E12683, Style 20081                       |
| <b>CSA Approval</b>        | File #LL7874, CSA AWM II A<br>105°C 300V FT1    |
| <b>Packaging</b>           | 100                                             |

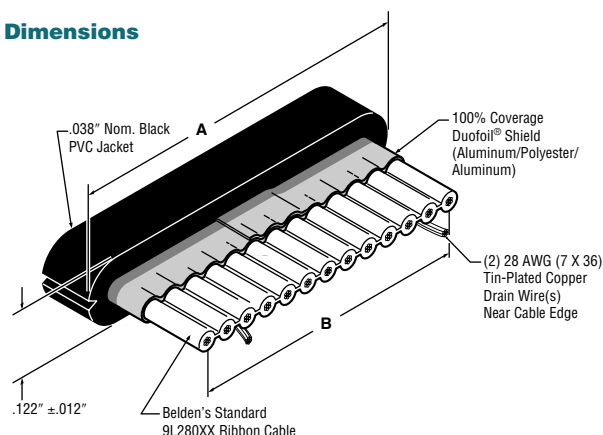
### Electrical Specifications

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <b>Voltage Rating</b>         | 300V RMS                                             |
| <b>Current Rating</b>         | 1A                                                   |
| <b>Conductor Resistance</b>   | 68Ω/1000 ft.                                         |
| <b>Insulation Resistance</b>  | $>1 \times 10^{10} \Omega \cdot 10 \text{ ft.}$ (3m) |
| <b>Impedance*</b>             | 45Ω                                                  |
| <b>Capacitance*</b> (@ 1 MHz) | 50 pF/ft. (164 pF/m)                                 |
| <b>Inductance*</b> (@ 1 MHz)  | .11 μH/ft. (.36 μH/m)                                |
| <b>Propagation Delay*</b>     | 1.70 ns/ft. (5.6 ns/m)                               |

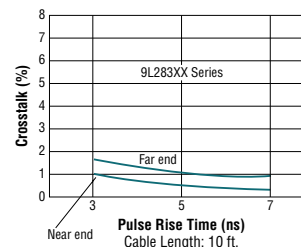
\*Test Configuration: G-S-G (ground-signal-ground), with shield grounded.

| Part No. | No. of Cond. | Dimensions |       |                 |                 |
|----------|--------------|------------|-------|-----------------|-----------------|
|          |              | Width "A"  |       | Span "B"        |                 |
|          |              | Inch       | mm    | Inch            | mm              |
| 9L28309  | 9            | .55        | 13.97 | .40 $\pm$ .008  | 10.16 $\pm$ .20 |
| 9L28310  | 10           | .60        | 15.24 | .45 $\pm$ .008  | 11.43 $\pm$ .20 |
| 9L28315  | 15           | .85        | 21.59 | .70 $\pm$ .008  | 17.78 $\pm$ .20 |
| 9L28320  | 20           | 1.10       | 27.94 | .95 $\pm$ .008  | 24.13 $\pm$ .20 |
| 9L28325  | 25           | 1.35       | 34.29 | 1.20 $\pm$ .008 | 30.48 $\pm$ .20 |
| 9L28326  | 26           | 1.40       | 35.56 | 1.25 $\pm$ .008 | 31.75 $\pm$ .20 |
| 9L28334  | 34           | 1.80       | 45.72 | 1.65 $\pm$ .008 | 41.91 $\pm$ .20 |
| 9L28336  | 36           | 1.90       | 48.26 | 1.75 $\pm$ .012 | 44.45 $\pm$ .30 |
| 9L28337  | 37           | 1.95       | 49.53 | 1.80 $\pm$ .012 | 45.72 $\pm$ .30 |
| 9L28340  | 40           | 2.10       | 53.34 | 1.95 $\pm$ .012 | 49.53 $\pm$ .30 |
| 9L28350  | 50           | 2.60       | 66.04 | 2.45 $\pm$ .012 | 62.23 $\pm$ .30 |
| 9L28360  | 60           | 3.10       | 78.74 | 2.95 $\pm$ .012 | 74.93 $\pm$ .30 |
| 9L28364  | 64           | 3.30       | 83.82 | 3.15 $\pm$ .012 | 80.01 $\pm$ .30 |

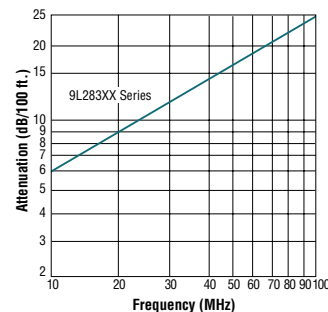
### Dimensions



### Unbalanced Crosstalk\*



### Attenuation\*



# Shielded Jacketed Vari-Twist® 9V283XX Series

.050" Pitch, 28 AWG, PVC

## Product Description

Belden's shielded jacketed 9V283XX series was designed to help meet the FCC EMI/RFI requirements. In addition, the cable provides shielding from external electrical interference along with excellent crosstalk attenuation. As with the 9V280XX series, the cable supplies the electrical benefits of twisted pairs, but can be mass-terminated in the programmed flat sections. The thin extruded jacket allows for greater flexibility, ease of termination, reduced space requirements, and identification of the flat sections while providing exterior protection from the environment. The core cable is Belden's 9V280XX PVC series to allow easy termination to any standard IDC connector. All cables are 100% shielded with a Duofoil® shield (aluminum/polyester/aluminum) and can be terminated with the two 28 AWG drain wires. Ten various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black, with common Tan. Repeat.

**Application:** External interconnection or internal wiring of electronic equipment.

## Physical Specifications

|                            |                                              |
|----------------------------|----------------------------------------------|
| <b>Conductor</b>           | 28 AWG (7x36) Tinned Copper                  |
| <b>Insulation</b>          | .010" Nom. Wall Color-coded PVC              |
| <b>Substrate</b>           | .010" Nom. Wall Clear PVC                    |
| <b>Pitch</b>               |                                              |
| Twisted Pair Centers:      | .100" Nom.                                   |
| Conductor Centers in Flat: | .050" ±.005"                                 |
| <b>Pairs</b>               | 1/2" Nom. Lay                                |
|                            | Adjacent Pairs have Opposite Direction Lay   |
| <b>Construction</b>        | 18" of Twisted Pairs<br>2" of Flat Section   |
| <b>Shielding</b>           | Duofoil Shield (Aluminum/Polyester/Aluminum) |
| <b>Drain Wires</b>         | Two 28 AWG (7x36) Tinned Copper              |
| <b>Jacket</b>              | .038" Nom. Wall Black PVC                    |
| <b>Temperature Rating</b>  | -20 to +105°C                                |
| <b>Flammability Rating</b> | UL: VW-1                                     |
| <b>UL Approval</b>         | File #E12683, Style 20081                    |
| <b>CSA Approval</b>        | Available Upon Request                       |
| <b>Packaging</b>           | 100                                          |

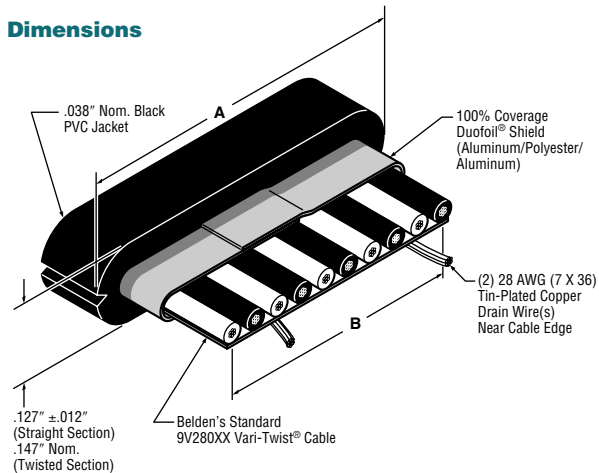
## Electrical Specifications

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Voltage Rating</b>          | 300V RMS                              |
| <b>Current Rating</b>          | 1A                                    |
| <b>Conductor Resistance</b>    | 68Ω/1000 ft.                          |
| <b>Insulation Resistance</b>   | >1 x 10 <sup>10</sup> Ω • 10 ft. (3m) |
| <b>Impedance (Balanced)</b>    | 100Ω                                  |
| <b>Impedance* (Unbalanced)</b> | 60Ω                                   |
| <b>Capacitance* (@ 1 MHz)</b>  | 29 pF/ft. (95 pF/m)                   |
| <b>Inductance* (@ 1 MHz)</b>   | .13 μH/ft. (.43 μH/m)                 |
| <b>Propagation Delay*</b>      | 1.6 ns/ft. (5.25 ns/m)                |

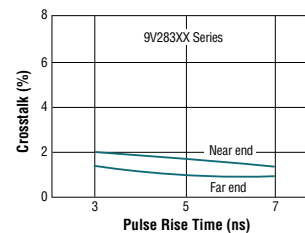
\*Test Configuration: G-S-G (ground-signal-ground) with shield grounded.

| Part No. | No. of Pairs | Dimensions |       |            |            |
|----------|--------------|------------|-------|------------|------------|
|          |              | Width "A"  |       | Span "B"   |            |
|          |              | Inch       | mm    | Inch       | mm         |
| 9V28310  | 5            | .60        | 15.24 | .45 ±.012  | 11.43 ±.30 |
| 9V28314  | 7            | .80        | 20.32 | .65 ±.012  | 16.51 ±.30 |
| 9V28316  | 8            | .90        | 22.86 | .75 ±.012  | 19.05 ±.30 |
| 9V28320  | 10           | 1.10       | 27.94 | .95 ±.015  | 24.13 ±.38 |
| 9V28326  | 13           | 1.40       | 35.56 | 1.25 ±.015 | 31.75 ±.38 |
| 9V28334  | 17           | 1.80       | 45.72 | 1.65 ±.015 | 41.91 ±.38 |
| 9V28336  | 18           | 1.90       | 48.26 | 1.75 ±.017 | 44.45 ±.43 |
| 9V28340  | 20           | 2.10       | 53.34 | 1.95 ±.017 | 49.53 ±.43 |
| 9V28350  | 25           | 2.60       | 66.04 | 2.45 ±.017 | 62.23 ±.43 |
| 9V28360  | 30           | 3.10       | 78.74 | 2.95 ±.020 | 74.93 ±.51 |

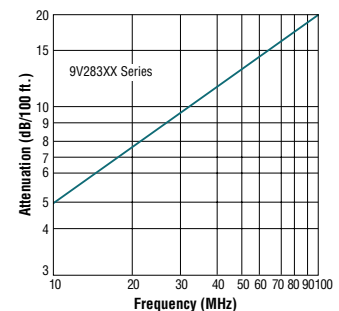
## Dimensions



## Unbalanced Crosstalk\*



## Attenuation\*



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**1-800-527-0010**

## Technical Information

### Flat Cable Crosstalk Testing

The following is a description of two methods Belden uses to test its flat cable for crosstalk. Because these methods are different, the results may be different even when the same type of cable is used in each test. In short, the reader is offered two different tests to determine which cable type has the best crosstalk characteristics. At times, the results of these two test methods do not agree. Therefore, it is best for the reader to determine which method most closely approximates actual cable application and use its results for cable comparisons.

#### Unbalanced Crosstalk

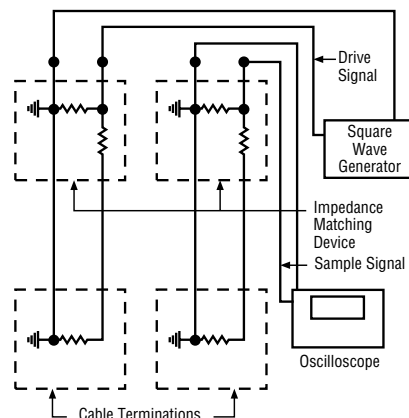
The unbalanced crosstalk of flat cables is measured as shown in Figure 1. One end of the cable drive is connected through an impedance matching device to a signal generator. The other end of the drive line is terminated in its characteristic impedance. The signal generator is capable of generating square wave pulses of varying leading edge rise times.

A test signal from the signal generator is inserted into the drive line. The cable is connected as follows: Ground-Drive line-Ground-Sample line-Ground or GSG mode. The sample line is also terminated at both ends in its characteristic impedance. The signal at each end of the sample line is measured. The signal at the signal generator end of the sample line is called the near end or reverse crosstalk. The signal at the opposite end of the sample line is called the far end or forward crosstalk. The actual crosstalk figures are given in % and are calculated as follows:

$$\% \text{ Crosstalk} = \frac{\text{Signal in sample line}}{\text{Signal in drive line}} \times 100\%$$

This type of crosstalk test is widely accepted in the flat cable industry. It is a very good method to determine the pulse crosstalk of all types of flat cables connected in the GSG mode. Crosstalk data for Belden flat cables tested using this method is given in the electrical data section of each cable.

Figure 1: Unbalanced Near End Crosstalk



## Technical Information

### Flat Cable Crosstalk Testing

#### Balanced Crosstalk

Twisted pair flat cables are not designed to be connected in the GSG mode. These cables provide positive crosstalk reduction over non-twisted pair cables when used in the balanced mode. The balanced crosstalk of twisted pair flat cables is measured as shown in Figure 2. One end of the cable drive pair is connected through a balanced impedance matching transformer to the network analyzer input. The other end of the cable drive pair is terminated in its characteristic impedance. One end of the cable sample pair is terminated in its characteristic impedance. The other end of the cable sample pair is connected through a balanced impedance matching transformer to the network analyzer output. Because impedance matching transformers are used, none of the wires in the drive or sample line share a common ground. The signal in each line is balanced to ground. For example, one wire of the line will carry the inverse of the signal in the other wire in the same line at any given moment. The signal from the tracking generator is a range of frequencies, typically from 10 MHz to 100 MHz. The signal at each end of the sample line is measured in units of dB of isolation using a spectrum analyzer. The crosstalk results of two cables, one with parallel non-twisted conductors (9L Series) and the other with twisted pair conductors (9V Series) is shown in Figure 3.

In conclusion, it is not the intent of this section to recommend one type of crosstalk testing over another. Rather, it is intended to demonstrate there are different cable types for the different cable applications.

Please choose the crosstalk testing method which most closely approximates your application.

**Figure 2: Balanced Near End Crosstalk**

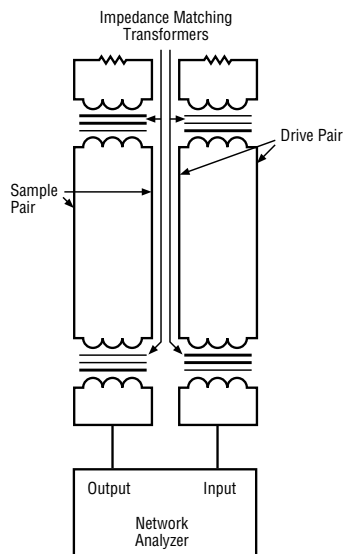
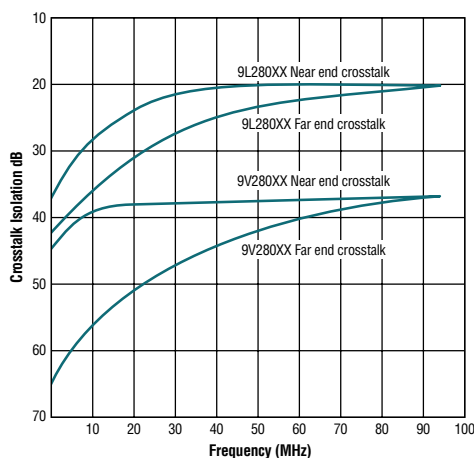


**Figure 3: Balanced Crosstalk**





# Molded Cable Assemblies

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## Introduction

### Quality Construction

Belden® molded cable assemblies are designed for long life and reliable performance in a variety of input/output (I/O) and keyboard interface applications. Among the many features of the cable assemblies are these performance-enhancing attributes:

#### Shielding

Molded handles are 100% shielded (where used) to assist in FCC compliance while guarding against EMI and RFI. Shield continuity is maintained through the entire length of the assembly. The connector shield is connected to both the connector shell and the cable shield. This provides a low resistance ground path to optimize shield performance.

#### Handles

Straight or right angle handles are available for different connecting situations. Standard molding is PVC.

#### Connectors

Connectors consist of tin-plated shells with grounding indents on male connectors. Pins and sockets are constructed of brass or phosphor-bronze base with gold selectively plated over nickel.

#### Retention Systems

Belden offers several types of retention systems. They include:

- **Friction:** Pin/contact force holds connectors mated.
- **Screw:** Retaining screws mate with female screwlocks. Straight handle uses two screws; right angle handle uses one screw. Screws are #4-40 thread of plated steel with stainless steel clips.
- **Slide Lock:** Fingertip-operated slide mechanism holds mated connectors securely. Slide lock clip is stainless steel with plated screw, washer, and hex nut.
- **Spring Latch:** Stainless steel latch mates with latching blocks (special orders only).
- **Jack Screw:** Two captive jacks crews mate securely with female screwlocks. Zinc plated, #4-40 thread screws with large knurled heads for easy fingertip connect/disconnect.

### Wiring Patterns

Standard wiring is point-to-point on most assemblies. Special wiring is available upon request.

#### Cables

For standard assemblies, Belden utilizes three standard cable configurations for tailoring a cable to a specific electrical environment. The cable configurations are as follows:

- **General Purpose Unshielded:** An economical assembly where electrical noise/interference is not a problem.
- **General Purpose Shielded:** An overall foil shielded assembly for use in situations where some noise/interference is experienced or anticipated.
- **Super Shield:** A foil plus braid shield provides extra protection in areas of moderate to heavy noise/interference.

Most of our molded cable assemblies are available from stock in a wide variety of handles, cables, colors, retention systems, and wiring patterns. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find molded cables in this catalog section that meet your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Molded Cable Assemblies Packaging

Unless otherwise indicated, molded cable assemblies are shipped in individual packages or plastic bags with printed part numbers, descriptions and an area to indicate the retail price.



By:

INTERSTATE WIRE  
INCORPORATEDTechnical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## D-Subminiature Assembly

### Shielded 9-Position and 15-Position

| Part No. | No. of Cond. | Length of Body |    |          |    | Length of Tail |    |           |    | Conductors<br>AWG<br>(stranding)<br>[Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|----------------|----|----------|----|----------------|----|-----------|----|--------------------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | Retracted      |    | Extended |    | Connector End  |    | Other End |    |                                                  | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |
|          |              | Inch           | mm | Inch     | mm | Inch           | mm | Inch      | mm |                                                  |        |            |                      |    |                  |    |            |    |

**9-Position Shielded D-Sub • Male Straight Handle One End • For keyboard-to-CRT use where 9-pin retractile is desired**

**Foil Shield (General Purpose) • Retractable • Polypropylene Insulation • Black Polyurethane Jacket**

|                                                                                         |   |    |     |    |      |   |     |    |     |         |                        |            |      |     |      |      |      |      |  |
|-----------------------------------------------------------------------------------------|---|----|-----|----|------|---|-----|----|-----|---------|------------------------|------------|------|-----|------|------|------|------|--|
| 49910A                                                                                  | 9 | 12 | 305 | 60 | 1524 | 6 | 152 | 18 | 457 | 26      | Overall<br>Foil        | 20 (42x36) | .006 | .15 | .065 | 1.65 | .250 | 6.35 |  |
| 49911A                                                                                  | 9 | 18 | 457 | 90 | 2286 | 6 | 152 | 18 | 457 | (19x38) |                        |            |      |     |      |      |      |      |  |
| Polyurethane jacket provides superior retractile properties at a reasonable cost.       |   |    |     |    |      |   |     |    |     |         | Tinned Copper<br>[.51] |            |      |     |      |      |      |      |  |
| Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. |   |    |     |    |      |   |     |    |     |         |                        |            |      |     |      |      |      |      |  |

Polyurethane jacket provides superior retractile properties at a reasonable cost.  
Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI.  
All connectors are tin-plated with detents for a positive ground connection.  
The end opposite the connector is stripped. Jack screw retention on male connector.

30V 60°C, UL AWM Style 20197



| Part No. | No. of Cond. | Standard Lengths |   | Gender | UL NEC/<br>(C)UL CEC<br>Type | Conductors<br>AWG<br>(stranding)<br>[Dia. in mm] | Shield |            | Insulation<br>Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|------------------|---|--------|------------------------------|--------------------------------------------------|--------|------------|-------------------------|----|------------------|----|------------|----|
|          |              | Ft.              | m |        |                              |                                                  | Type   | Drain Wire | Inch                    | mm | Inch             | mm | Inch       | mm |

**9-Position Shielded D-Sub • Straight Handle Both Ends • For RS-449 applications**

**Foil Shield (General Purpose) • Semi-rigid PVC Insulation • Chrome PVC Jacket**

|        |   |    |     |             |            |                                        |                 |           |      |     |      |     |      |      |
|--------|---|----|-----|-------------|------------|----------------------------------------|-----------------|-----------|------|-----|------|-----|------|------|
| 49900A | 9 | 5  | 1.5 | Male/Male   | NEC:<br>CM | 24<br>(7x32)<br>Tinned Copper<br>[.61] | Overall<br>Foil | 24 (7x32) | .010 | .25 | .032 | .81 | .244 | 6.20 |
| 49901A | 9 | 10 | 3.0 | Male/Male   |            |                                        |                 |           |      |     |      |     |      |      |
| 49902A | 9 | 25 | 7.6 | Male/Male   |            |                                        |                 |           |      |     |      |     |      |      |
| 49905A | 9 | 5  | 1.5 | Male/Female |            |                                        |                 |           |      |     |      |     |      |      |
| 49906A | 9 | 10 | 3.0 | Male/Female |            |                                        |                 |           |      |     |      |     |      |      |
| 49907A | 9 | 25 | 7.6 | Male/Female |            |                                        |                 |           |      |     |      |     |      |      |

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



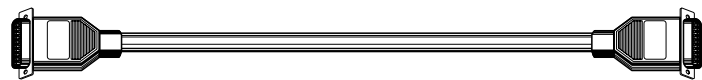
**15-Position Shielded D-Sub • Straight Handle Both Ends • For any 15-pin application exposed to high-noise environment**

**Foil Shield (General Purpose) • Semi-rigid PVC Insulation • Chrome PVC Jacket**

|        |    |    |     |             |            |                                        |                 |           |      |     |      |     |      |      |
|--------|----|----|-----|-------------|------------|----------------------------------------|-----------------|-----------|------|-----|------|-----|------|------|
| 49720A | 15 | 5  | 1.5 | Male/Male   | NEC:<br>CM | 24<br>(7x32)<br>Tinned Copper<br>[.61] | Overall<br>Foil | 24 (7x32) | .010 | .25 | .032 | .81 | .284 | 7.21 |
| 49721A | 15 | 10 | 3.0 | Male/Male   |            |                                        |                 |           |      |     |      |     |      |      |
| 49725A | 15 | 5  | 1.5 | Male/Female |            |                                        |                 |           |      |     |      |     |      |      |
| 49726A | 15 | 10 | 3.0 | Male/Female |            |                                        |                 |           |      |     |      |     |      |      |

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



**Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Chrome PVC Jacket**

|        |    |    |     |             |            |                                        |                                   |      |      |     |      |     |      |      |
|--------|----|----|-----|-------------|------------|----------------------------------------|-----------------------------------|------|------|-----|------|-----|------|------|
| 49740A | 15 | 5  | 1.5 | Male/Male   | NEC:<br>CM | 24<br>(7x32)<br>Tinned Copper<br>[.61] | Overall<br>Foil<br>+ 65%<br>Braid | None | .010 | .25 | .035 | .89 | .300 | 7.62 |
| 49745A | 15 | 5  | 1.5 | Male/Female |            |                                        |                                   |      |      |     |      |     |      |      |
| 49746A | 15 | 10 | 3.0 | Male/Female |            |                                        |                                   |      |      |     |      |     |      |      |
| 49747A | 15 | 25 | 7.6 | Male/Female |            |                                        |                                   |      |      |     |      |     |      |      |

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors tin-plated and male connectors have detents for positive ground connection. Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464





## D-Subminiature Assembly

### Shielded 25-Position

| Part No. | No. of Cond. | Standard Lengths |   | Gender | UL NEC/ (C)UL CEC Type | Conductors AWG (stranding) [Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|------------------|---|--------|------------------------|-----------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | ft.              | m |        |                        |                                         | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |

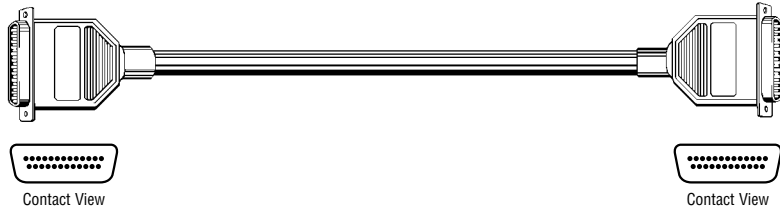
#### 25-Position Shielded D-Sub • Straight Handle Both Ends • For RS-232 applications

##### Foil Shield (General Purpose) • Semi-rigid PVC Insulation • Chrome PVC Jacket

|                           |    |    |      |             |         |                                     |              |           |      |     |      |     |      |      |
|---------------------------|----|----|------|-------------|---------|-------------------------------------|--------------|-----------|------|-----|------|-----|------|------|
| 49668A                    | 25 | 5  | 1.5  | Male/Male   | NEC: CM | 24 (7x32)<br>Tinned Copper<br>[.61] | Overall Foil | 24 (7x32) | .010 | .25 | .032 | .81 | .339 | 8.61 |
| 49669A                    | 25 | 10 | 3.0  | Male/Male   |         |                                     |              |           |      |     |      |     |      |      |
| 49670A                    | 25 | 25 | 7.6  | Male/Male   |         |                                     |              |           |      |     |      |     |      |      |
| 49671A <small>new</small> | 25 | 50 | 15.2 | Male/Male   |         |                                     |              |           |      |     |      |     |      |      |
| 49673A                    | 25 | 5  | 1.5  | Male/Female |         |                                     |              |           |      |     |      |     |      |      |
| 49674A                    | 25 | 10 | 3.0  | Male/Female |         |                                     |              |           |      |     |      |     |      |      |
| 49675A                    | 25 | 25 | 7.6  | Male/Female |         |                                     |              |           |      |     |      |     |      |      |
| 49676A <small>new</small> | 25 | 50 | 15.2 | Male/Female |         |                                     |              |           |      |     |      |     |      |      |

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464

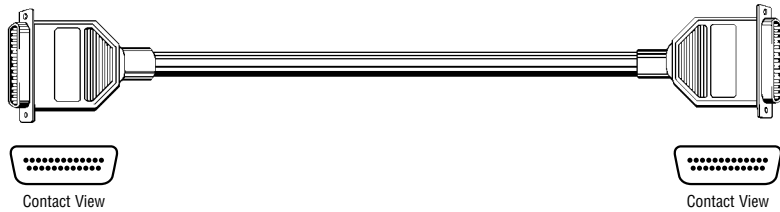


##### Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Chrome PVC Jacket

|        |    |    |     |             |         |                                     |                          |      |      |     |      |      |      |      |
|--------|----|----|-----|-------------|---------|-------------------------------------|--------------------------|------|------|-----|------|------|------|------|
| 49612A | 25 | 25 | 7.6 | Male/Male   | NEC: CM | 24 (7x32)<br>Tinned Copper<br>[.61] | Overall Foil + 65% Braid | None | .010 | .25 | .040 | 1.02 | .370 | 9.40 |
| 49615A | 25 | 5  | 1.5 | Male/Female |         |                                     |                          |      |      |     |      |      |      |      |
| 49616A | 25 | 10 | 3.0 | Male/Female |         |                                     |                          |      |      |     |      |      |      |      |
| 49617A | 25 | 25 | 7.6 | Male/Female |         |                                     |                          |      |      |     |      |      |      |      |

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



##### Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Chrome PVC Jacket

|        |    |   |     |           |         |                                     |                          |      |      |     |      |      |      |      |
|--------|----|---|-----|-----------|---------|-------------------------------------|--------------------------|------|------|-----|------|------|------|------|
| 49660A | 25 | 5 | 1.5 | Male/Male | NEC: CM | 24 (7x32)<br>Tinned Copper<br>[.61] | Overall Foil + 65% Braid | None | .010 | .25 | .040 | 1.02 | .370 | 9.40 |
|--------|----|---|-----|-----------|---------|-------------------------------------|--------------------------|------|------|-----|------|------|------|------|

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

300V 80°C, UL AWM Style 2464



**D-Subminiature Assembly**

Unshielded 25-Position, Shielded 37-Position and 50-Position

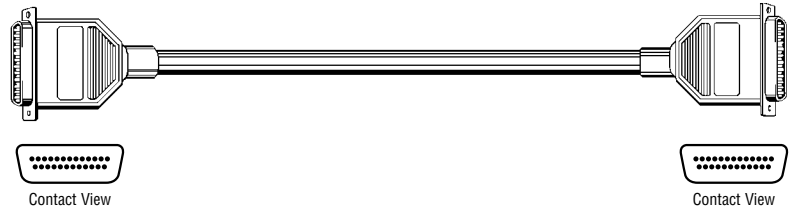
| Part No. | No. of Cond. | Standard Lengths |   | Gender | UL NEC/ (C)UL CEC Type | Conductors AWG (stranding) [Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|------------------|---|--------|------------------------|-----------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | Ft.              | m |        |                        |                                         | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |

**25-Position Unshielded D-Sub • Straight Handle Both Ends • For RS-232 applications****Unshielded (General Purpose) • Semi-rigid PVC Insulation • Chrome PVC Jacket**

|               |    |    |     |             |         |                                     |      |      |      |     |      |      |      |      |
|---------------|----|----|-----|-------------|---------|-------------------------------------|------|------|------|-----|------|------|------|------|
| <b>49653A</b> | 25 | 10 | 3.0 | Male/Female | NEC: CM | 24 (7x32)<br>Tinned Copper<br>[.61] | None | None | .010 | .25 | .040 | 1.02 | .350 | 8.89 |
|---------------|----|----|-----|-------------|---------|-------------------------------------|------|------|------|-----|------|------|------|------|

Molded handles are 100% shielded to guard against EMI/RFI where indicated. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

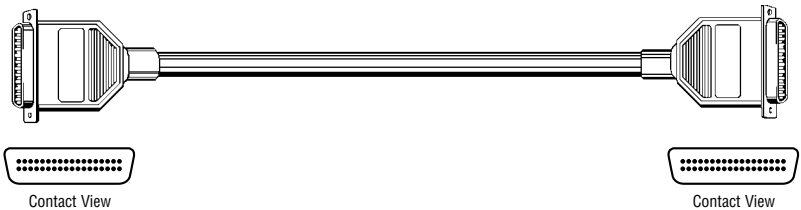
300V 80°C, UL AWM Style 2464

**37-Position Shielded D-Sub • Straight Handle Both Ends • For RS-449 applications where assembly is exposed to high noise environment****Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Chrome PVC Jacket**

|               |    |    |      |             |         |                                     |                                           |      |      |     |      |      |      |       |
|---------------|----|----|------|-------------|---------|-------------------------------------|-------------------------------------------|------|------|-----|------|------|------|-------|
| <b>49950A</b> | 36 | 5  | 1.5  | Male/Male   | NEC: CM | 24 (7x32)<br>Tinned Copper<br>[.61] | Overall Foil + 65%<br>Tinned Copper Braid | None | .010 | .25 | .045 | 1.14 | .480 | 12.19 |
| <b>49951A</b> | 36 | 10 | 3.0  | Male/Male   |         |                                     |                                           |      |      |     |      |      |      |       |
| <b>49952A</b> | 36 | 25 | 7.6  | Male/Male   |         |                                     |                                           |      |      |     |      |      |      |       |
| <b>49955A</b> | 36 | 5  | 1.5  | Male/Female |         |                                     |                                           |      |      |     |      |      |      |       |
| <b>49956A</b> | 36 | 10 | 3.0  | Male/Female |         |                                     |                                           |      |      |     |      |      |      |       |
| <b>49957A</b> | 36 | 25 | 7.6  | Male/Female |         |                                     |                                           |      |      |     |      |      |      |       |
| <b>49958A</b> | 36 | 50 | 15.2 | Male/Female |         |                                     |                                           |      |      |     |      |      |      |       |

Molded handles are 100% shielded to assist in FCC compliance and guard against EMI/RFI. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell and pin #1. Jack screw retention on both connectors.

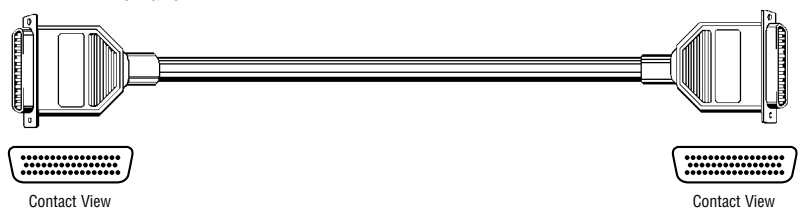
300V 80°C, UL AWM Style 2464

**50-Position Shielded D-Sub • Straight Handle Both Ends • For high-density applications where assembly is exposed to high noise environment****Foil Shield (General Purpose) • Polyethylene Insulation • Chrome PVC Jacket**

|               |    |    |     |             |         |                                     |                                                        |  |      |     |      |      |      |       |
|---------------|----|----|-----|-------------|---------|-------------------------------------|--------------------------------------------------------|--|------|-----|------|------|------|-------|
| <b>49760A</b> | 50 | 5  | 1.5 | Male/Male   | NEC: CM | 26 (7x34)<br>Tinned Copper<br>[.48] | Overall 22 (7x30)<br>Foil + 91%<br>Tinned Copper Braid |  | .010 | .25 | .049 | 1.24 | .535 | 13.59 |
| <b>49761A</b> | 50 | 10 | 3.0 | Male/Male   |         |                                     |                                                        |  |      |     |      |      |      |       |
| <b>49762A</b> | 50 | 25 | 7.6 | Male/Male   |         |                                     |                                                        |  |      |     |      |      |      |       |
| <b>49765A</b> | 50 | 5  | 1.5 | Male/Female |         |                                     |                                                        |  |      |     |      |      |      |       |
| <b>49766A</b> | 50 | 10 | 3.0 | Male/Female |         |                                     |                                                        |  |      |     |      |      |      |       |
| <b>49767A</b> | 50 | 25 | 7.6 | Male/Female |         |                                     |                                                        |  |      |     |      |      |      |       |

Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance. All connectors are tin-plated and male connectors have detents to allow for a positive shield to ground connection. Wiring is point-to-point with shield to connector shell. Jack screw retention on both connectors.

30V 80°C, UL AWM Style 2919



## SCSI Cable Assembly

SCSI-1 and SCSI-2

Shielded Straight and Right-Angled Handles

| Part No. | No. of Cond. | Standard Lengths |   | Gender | UL NEC/ (C)UL CEC Type | Conductors AWG (stranding) [Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|------------------|---|--------|------------------------|-----------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | ft.              | m |        |                        |                                         | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |

**SCSI-1 Assemblies (26 AWG)** • Shielded Straight Handles • For SCSI (Small Computer Systems Interface) applications

**Foil plus Braid Shield (Super Shield) • Polyethylene Insulation • Chrome PVC Jacket**

|                                  |    |      |    |           |            |                   |                |           |      |     |      |      |      |       |
|----------------------------------|----|------|----|-----------|------------|-------------------|----------------|-----------|------|-----|------|------|------|-------|
| <b>49801A</b> <small>new</small> | 50 | 6.6  | 2  | Male/Male | NEC:<br>CM | 26<br>(7x34)      | Overall        | 22 (7x30) | .010 | .25 | .049 | 1.24 | .535 | 13.59 |
| <b>49802A</b>                    | 50 | 16.4 | 5  | Male/Male |            | Tinned Copper     | Foil           |           |      |     |      |      |      |       |
| <b>49803A</b> <small>new</small> | 50 | 32.8 | 10 | Male/Male |            | [.48]<br>25 Pairs | + 90%<br>Braid |           |      |     |      |      |      |       |

Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance. These assemblies have tin-plated connectors and can be used in single-ended or differential configurations. Wiring is per SCSI standard.

30V 80°C, UL AWM Style 2919



**SCSI-1 Assemblies (26 AWG)** • One Shielded Straight Handle, One Shielded Right-Angle Handle • For SCSI applications

**Foil plus Braid Shield (Super Shield) • Polyethylene Insulation • Chrome PVC Jacket**

|                                  |    |      |    |           |            |                   |                |           |      |     |      |      |      |       |
|----------------------------------|----|------|----|-----------|------------|-------------------|----------------|-----------|------|-----|------|------|------|-------|
| <b>49813A</b> <small>new</small> | 50 | 32.8 | 10 | Male/Male | NEC:<br>CM | 26<br>(7x34)      | Overall        | 22 (7x30) | .010 | .25 | .049 | 1.24 | .535 | 13.59 |
|                                  |    |      |    |           |            | Tinned Copper     | Foil           |           |      |     |      |      |      |       |
|                                  |    |      |    |           |            | [.48]<br>25 Pairs | + 90%<br>Braid |           |      |     |      |      |      |       |

Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance. These assemblies have tin-plated connectors and can be used in single-ended or differential configurations. Wiring is per SCSI standard.

30V 80°C, UL AWM Style 2919



**SCSI-2 Assemblies (28 AWG)** • Shielded Straight Handles • For SCSI (Small Computer System Interface) applications

**Foil plus Braid Shield (Super Shield) • Polyethylene Insulation • Matte Black PVC Jacket**

|               |    |     |     |           |  |                   |                |           |      |     |      |     |      |       |
|---------------|----|-----|-----|-----------|--|-------------------|----------------|-----------|------|-----|------|-----|------|-------|
| <b>50000A</b> | 50 | 3.3 | 1   | Male/Male |  | 28<br>(7x36)      | Overall        | 24 (7x32) | .010 | .25 | .032 | .81 | .425 | 10.80 |
| <b>50001A</b> | 50 | 4.9 | 1.5 | Male/Male |  | Tinned Copper     | Foil           |           |      |     |      |     |      |       |
|               |    |     |     |           |  | [.38]<br>25 Pairs | + 85%<br>Braid |           |      |     |      |     |      |       |

Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance. These assemblies have tin-plated connectors and can be used in single-ended or differential configurations. Wiring is per SCSI standard.

30V 80°C, UL AWM Style 2919



# **GPIO (General Purpose Interface Bus) Assembly**

## Unshielded and Shielded Connectors

| Part No. | No. of Cond. | Standard Lengths |   | Gender | UL NEC/ (C)UL CEC Type | Conductors AWG (stranding) | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|------------------|---|--------|------------------------|----------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | Ft.              | m |        |                        |                            | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |

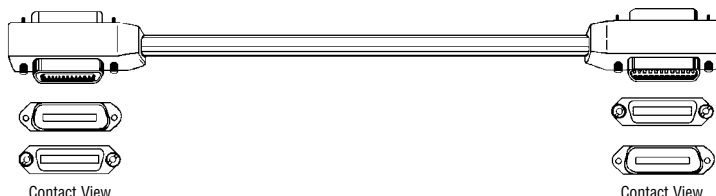
**Unshielded GPIO • Molded PVC Connector • For use with electronic equipment that is IEEE-488 compatible**

**Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Gull Gray PVC Jacket**

|              |    |      |   |                      |         |                                        |                          |           |      |     |      |     |      |      |
|--------------|----|------|---|----------------------|---------|----------------------------------------|--------------------------|-----------|------|-----|------|-----|------|------|
| <b>49642</b> | 23 | 3.3  | 1 | Male/Female Each End | NEC: CM | 6 Pairs: 26 (7x34)<br>Tinned Copper    | Overall Foil + 90% Braid | 26 (7x34) | .010 | .25 | .035 | .89 | .350 | 8.89 |
| <b>49643</b> | 23 | 6.6  | 2 | Male/Female Each End |         | 10 Singles: 26 (7x34)<br>Tinned Copper |                          |           |      |     |      |     |      |      |
| <b>49657</b> | 23 | 9.8  | 3 | Male/Female Each End |         | 1 Single: 24 (7x32)<br>Tinned Copper   |                          |           |      |     |      |     |      |      |
| <b>49644</b> | 23 | 13.1 | 4 | Male/Female Each End |         |                                        |                          |           |      |     |      |     |      |      |
| <b>49645</b> | 23 | 26.2 | 8 | Male/Female Each End |         |                                        |                          |           |      |     |      |     |      |      |

Molded connector is male/female design for easy stacking and comes with molded-in metric jack screws.

300V 80°C, UL AWM Style 2464



**Shielded GPIO • Die Cast Connector • For use with electronic equipment that is IEEE-488 compatible**

**Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Gull Gray PVC Jacket**

|              |    |      |   |                      |         |                                        |                          |           |      |     |      |     |      |      |
|--------------|----|------|---|----------------------|---------|----------------------------------------|--------------------------|-----------|------|-----|------|-----|------|------|
| <b>49635</b> | 23 | 3.3  | 1 | Male/Female Each End | NEC: CM | 6 Pairs: 26 (7x34)<br>Tinned Copper    | Overall Foil + 90% Braid | 26 (7x34) | .010 | .25 | .035 | .89 | .350 | 8.89 |
| <b>49636</b> | 23 | 6.6  | 2 | Male/Female Each End |         | 10 Singles: 26 (7x34)<br>Tinned Copper |                          |           |      |     |      |     |      |      |
| <b>49637</b> | 23 | 9.8  | 3 | Male/Female Each End |         | 1 Single: 24 (7x32)<br>Tinned Copper   |                          |           |      |     |      |     |      |      |
| <b>49638</b> | 23 | 13.1 | 4 | Male/Female Each End |         |                                        |                          |           |      |     |      |     |      |      |
| <b>49639</b> | 23 | 26.2 | 8 | Male/Female Each End |         |                                        |                          |           |      |     |      |     |      |      |

Die cast connector is male/female design for easy stacking and comes with molded-in metric jack screws.

300V 80°C, UL AWM Style 2464



**Shielded GPIO • Molded PVC Connector • For use with electronic equipment that is IEEE-488 compatible**

**Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Gull Gray PVC Jacket**

|              |    |      |    |                      |         |                                        |                          |           |      |     |      |     |      |      |
|--------------|----|------|----|----------------------|---------|----------------------------------------|--------------------------|-----------|------|-----|------|-----|------|------|
| <b>49733</b> | 23 | 1.6  | .5 | Male/Female Each End | NEC: CM | 6 Pairs: 26 (7x34)<br>Tinned Copper    | Overall Foil + 90% Braid | 26 (7x34) | .010 | .25 | .035 | .89 | .350 | 8.89 |
| <b>49734</b> | 23 | 3.3  | 1  | Male/Female Each End |         | 10 Singles: 26 (7x34)<br>Tinned Copper |                          |           |      |     |      |     |      |      |
| <b>49735</b> | 23 | 6.6  | 2  | Male/Female Each End |         | 1 Single: 24 (7x32)<br>Tinned Copper   |                          |           |      |     |      |     |      |      |
| <b>49736</b> | 23 | 9.8  | 3  | Male/Female Each End |         |                                        |                          |           |      |     |      |     |      |      |
| <b>49737</b> | 23 | 13.1 | 4  | Male/Female Each End |         |                                        |                          |           |      |     |      |     |      |      |
| <b>49738</b> | 23 | 26.2 | 8  | Male/Female Each End |         |                                        |                          |           |      |     |      |     |      |      |

Molded connector is male/female design for easy stacking and comes with molded-in metric jack screws.

300V 80°C, UL AWM Style 2464



## DIN\* Cable Assembly

Shielded 3-Position, 5-Position and 8-Position

| Part No. | No. of Cond. | Standard Lengths |   | UL NEC/ (C)UL CEC Type | Conductors AWG (stranding) [Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|------------------|---|------------------------|-----------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | Ft.              | m |                        |                                         | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |

**3-Position Shielded DIN** • Straight Handle One End • Used where a shielded conductor is desired and as a low cost alternative to a D-Sub

### Foil plus Braid Shield (Super Shield) • PVC Insulation • Black PVC Jacket

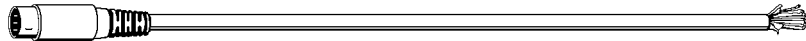
|                                  |   |    |     |         |                               |                                        |            |      |     |      |     |      |      |
|----------------------------------|---|----|-----|---------|-------------------------------|----------------------------------------|------------|------|-----|------|-----|------|------|
| <b>49151A</b> <small>new</small> | 3 | 10 | 3.0 | NEC: CM | 26 (19x38) Tinned Copper [51] | Overall Foil + 90% Tinned Copper Braid | 26 (19x38) | .014 | .36 | .037 | .94 | .200 | 5.08 |
|----------------------------------|---|----|-----|---------|-------------------------------|----------------------------------------|------------|------|-----|------|-----|------|------|

Foil and braid shielded for high-noise environments.  
Outer jacket stripped 1 inch.

300V 80°C, UL AWM Style 2464. Packaged: S-25



Contact View



**5-Position Shielded DIN** • Straight Handle One End • Used where a shielded conductor is desired and as a low cost alternative to a D-Sub

### Foil Shield (General Purpose) • PVC Insulation • Black PVC Jacket

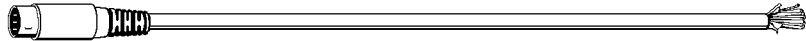
|               |   |    |     |         |                               |              |            |      |     |      |      |      |      |
|---------------|---|----|-----|---------|-------------------------------|--------------|------------|------|-----|------|------|------|------|
| <b>49152A</b> | 5 | 10 | 3.0 | NEC: CM | 26 (19x38) Tinned Copper [51] | Overall Foil | 26 (19x38) | .014 | .36 | .053 | 1.35 | .251 | 6.38 |
|---------------|---|----|-----|---------|-------------------------------|--------------|------------|------|-----|------|------|------|------|

Foil shielded for moderate-noise environments.  
Outer jacket stripped 1 inch.

300V 80°C, UL AWM Style 2464. Packaged: B-25, S-25



Contact View



### Foil plus Braid Shield (Super Shield) • PVC Insulation • Black PVC Jacket

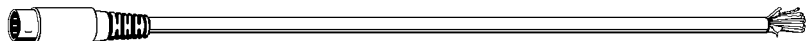
|                                  |   |    |     |         |                               |                                        |            |      |     |      |     |      |      |
|----------------------------------|---|----|-----|---------|-------------------------------|----------------------------------------|------------|------|-----|------|-----|------|------|
| <b>49153A</b> <small>new</small> | 5 | 10 | 3.0 | NEC: CM | 26 (19x38) Tinned Copper [51] | Overall Foil + 90% Tinned Copper Braid | 26 (19x38) | .014 | .36 | .037 | .94 | .231 | 5.87 |
|----------------------------------|---|----|-----|---------|-------------------------------|----------------------------------------|------------|------|-----|------|-----|------|------|

Foil and braid shielded for high-noise environments.  
Outer jacket stripped 1 inch.

300V 80°C, UL AWM Style 2464. Packaged: B-25, S-25



Contact View



**8-Position Shielded DIN** • Straight Handle One End • Used where a shielded conductor is desired and as a low cost alternative to a D-Sub

### Foil Shield (General Purpose) • PVC Insulation • Black PVC Jacket

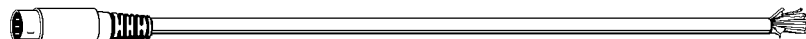
|               |   |    |     |         |                               |              |            |      |     |      |      |      |      |
|---------------|---|----|-----|---------|-------------------------------|--------------|------------|------|-----|------|------|------|------|
| <b>49154A</b> | 8 | 10 | 3.0 | NEC: CM | 26 (19x38) Tinned Copper [51] | Overall Foil | 26 (19x38) | .014 | .36 | .052 | 1.32 | .266 | 6.76 |
|---------------|---|----|-----|---------|-------------------------------|--------------|------------|------|-----|------|------|------|------|

Foil shielded for moderate-noise environments.  
Outer jacket stripped 1 inch.

300V 80°C, UL AWM Style 2464. Packaged: B-25, S-25



Contact View



\*DIN Standard (Deutsche Industries Norm)



By:



INTERSTATE WIRE CO.  
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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

**DIN\* Cable Assembly**

Shielded 5-Position and 8-Position Retractable

| Part No. | No. of Cond. | Length of Body |    |          |    | Length of Tail |    |           |    | Conductors AWG (stranding) [Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|----------------|----|----------|----|----------------|----|-----------|----|-----------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | Retracted      |    | Extended |    | Connector End  |    | Other End |    |                                         | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |
|          |              | Inch           | mm | Inch     | mm | Inch           | mm | Inch      | mm |                                         |        |            |                      |    |                  |    |            |    |

**5-Position Shielded DIN** • Straight Handle • Standard friction-fit connectors mate easily with many microcomputer keyboard ports**Foil plus Serve Shield (Super Shield) • Retractable • PVC Insulation • Black PVC Jacket**

|               |   |      |       |      |        |    |       |    |        |                                         |                        |            |      |     |      |      |      |      |
|---------------|---|------|-------|------|--------|----|-------|----|--------|-----------------------------------------|------------------------|------------|------|-----|------|------|------|------|
| <b>49103A</b> | 5 | 14.5 | 368.3 | 72.5 | 1841.5 | 12 | 304.8 | 18 | 457.20 | 26<br>(19x38)<br>Tinned Copper<br>[.51] | Foil<br>+ 95%<br>Serve | 26 (19x38) | .014 | .36 | .058 | 1.47 | .260 | 6.60 |
|---------------|---|------|-------|------|--------|----|-------|----|--------|-----------------------------------------|------------------------|------------|------|-----|------|------|------|------|

Shielded connectors maintain shield integrity and assist in FCC compliance.  
Utilizes 26 AWG conductor for low voltage drop. Ideal for higher noise situations.  
300V 80°C, UL AWM Style 2464. Packaged: S-25



NEC: CM

**8-Position Shielded DIN** • Straight Handle • Standard friction-fit connectors mate easily with many microcomputer keyboard ports**Foil Shield (General Purpose) • Retractable • PVC Insulation • Black PVC Jacket**

|               |   |      |       |      |        |    |       |    |        |                                         |      |            |      |     |      |      |      |      |
|---------------|---|------|-------|------|--------|----|-------|----|--------|-----------------------------------------|------|------------|------|-----|------|------|------|------|
| <b>49104A</b> | 8 | 14.5 | 368.3 | 72.5 | 1841.5 | 12 | 304.8 | 18 | 457.20 | 26<br>(19x38)<br>Tinned Copper<br>[.51] | Foil | 26 (19x38) | .014 | .36 | .052 | 1.32 | .266 | 6.76 |
|---------------|---|------|-------|------|--------|----|-------|----|--------|-----------------------------------------|------|------------|------|-----|------|------|------|------|

Shielded connectors maintain shield integrity and assist in FCC compliance.  
Utilizes 26 AWG conductor for low voltage drop. Ideal for higher noise situations.  
300V 80°C, UL AWM Style 2464. Packaged: S-25



NEC: CM

**DIN Pin Configurations • Face Views**

\*\*Available by special order

\*DIN Standard (Deutsche Industries Norm)

# Modular Keyboard Assembly

4-Position, 6-Position and 8-Position with Retractable Cables

Unshielded or Shielded Modular Plugs

| Part No. | No. of Cond. | Length of Cord |    |               |    |             |    | Conductors AWG (stranding) [Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|----------------|----|---------------|----|-------------|----|-----------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | Body Retracted |    | Body Extended |    | Tail Length |    |                                         | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |
|          |              | Inch           | mm | Inch          | mm | Inch        | mm |                                         |        |            |                      |    |                  |    |            |    |

**4-Position Modular Plugs** • Used to rapidly interconnect electronic computers and business machines

| Unshielded (General Purpose) • Retractable • Polypropylene Insulation • Black or CRT White Polyurethane Jacket                                       |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|-----|------|---------|---|-------|-----------------------------------------|------|------|------|-----|------|-----|------|------|
| 49440                                                                                                                                                | 4 | 15 | 381 | 67.5 | 1714.50 | 1 | 25.40 | 26<br>(19x38)<br>Tinned Copper<br>[.51] | None | None | .006 | .15 | .030 | .76 | .093 | 2.36 |
| Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     | x    | x    |
| 30V 60°C, UL AWM Style 20197. Packaged: B-25, S-25                                                                                                   |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     | .198 | 5.03 |

**6-Position Modular Plugs** • Used to rapidly interconnect electronic computers and business machines

| Unshielded (General Purpose) • Retractable • Polypropylene Insulation • Black Polyurethane Jacket                                                    |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|-----|------|---------|---|-------|-----------------------------------------|------|------|------|-----|------|-----|------|------|
| 49441                                                                                                                                                | 6 | 15 | 381 | 67.5 | 1714.50 | 1 | 25.40 | 26<br>(19x38)<br>Tinned Copper<br>[.51] | None | None | .006 | .15 | .030 | .76 | .093 | 2.36 |
| Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     | x    | x    |
| 30V 60°C, UL AWM Style 20197. Packaged: B-25, S-25                                                                                                   |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     | .258 | 6.55 |

| Foil Shield* • Retractable • Polypropylene Insulation • Black or CRT White Polyurethane Jacket                                                                                                                              |   |    |     |      |         |   |       |                                         |                 |            |      |     |      |     |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|-----|------|---------|---|-------|-----------------------------------------|-----------------|------------|------|-----|------|-----|------|------|
| 49403                                                                                                                                                                                                                       | 5 | 15 | 381 | 67.5 | 1714.50 | 1 | 25.40 | 26<br>(19x38)<br>Tinned Copper<br>[.51] | Overall<br>Foil | 26 (19x38) | .006 | .15 | .030 | .76 | .097 | 2.46 |
| Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. A longitudinal aluminum/polyester shield protects against ESD and EMI. |   |    |     |      |         |   |       |                                         |                 |            |      |     |      |     | x    | x    |
| 30V 60°C, UL AWM Style 20197. Packaged: B-25, S-25                                                                                                                                                                          |   |    |     |      |         |   |       |                                         |                 |            |      |     |      |     | .255 | 6.48 |

**8-Position Modular Plugs** • Used to rapidly interconnect electronic computers and business machines

| Unshielded (General Purpose) • Retractable • Polypropylene Insulation • Black or CRT White Polyurethane Jacket                                       |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|-----|------|---------|---|-------|-----------------------------------------|------|------|------|-----|------|-----|------|------|
| 49442                                                                                                                                                | 8 | 15 | 381 | 67.5 | 1714.50 | 1 | 25.40 | 26<br>(19x38)<br>Tinned Copper<br>[.51] | None | None | .006 | .15 | .030 | .76 | .100 | 2.54 |
| Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     | x    | x    |
| 30V 60°C, UL AWM Style 20197. Packaged: B-25, S-25                                                                                                   |   |    |     |      |         |   |       |                                         |      |      |      |     |      |     | .314 | 7.98 |

| Foil Shield* • Retractable • Polyurethane Insulation • Black Polypropylene Jacket                                                                                                                                           |   |    |     |      |         |   |       |                                         |      |            |      |     |      |     |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|-----|------|---------|---|-------|-----------------------------------------|------|------------|------|-----|------|-----|------|------|
| 49402                                                                                                                                                                                                                       | 7 | 15 | 381 | 67.5 | 1714.50 | 1 | 25.40 | 26<br>(19x38)<br>Tinned Copper<br>[.51] | Foil | 26 (19x38) | .006 | .15 | .030 | .76 | .100 | 2.54 |
| Positive locking latch prevents connector from vibrating loose. Polarized connector prevents improper insertion. No tools required for installation. A longitudinal aluminum/polyester shield protects against ESD and EMI. |   |    |     |      |         |   |       |                                         |      |            |      |     |      |     | x    | x    |
| 30V 60°C, UL AWM Style 20197. Packaged: S-25                                                                                                                                                                                |   |    |     |      |         |   |       |                                         |      |            |      |     |      |     | .314 | 7.98 |



Contact View



Contact View

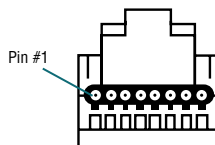
## Modular Plug Wiring Schemes

Cross wiring is standard on non-shielded constructions

|        |   |
|--------|---|
| 1..... | 4 |
| 2..... | 3 |
| 3..... | 2 |
| 4..... | 1 |

Straight wiring is standard on shielded constructions

|        |   |
|--------|---|
| 1..... | 1 |
| 2..... | 2 |
| 3..... | 3 |
| 4..... | 4 |



\*In shielded versions, the drain wire is always the highest numbered position in the connector.


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1-800-527-0010

## Parallel Interface and Coax Cable Assembly

| Part No. | No. of Cond. | Standard Lengths |   | Gender | UL NEC/ (C)UL CEC Type | Conductors AWG (stranding) [Dia. in mm] | Shield |            | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|----------|--------------|------------------|---|--------|------------------------|-----------------------------------------|--------|------------|----------------------|----|------------------|----|------------|----|
|          |              | Ft.              | m |        |                        |                                         | Type   | Drain Wire | Inch                 | mm | Inch             | mm | Inch       | mm |

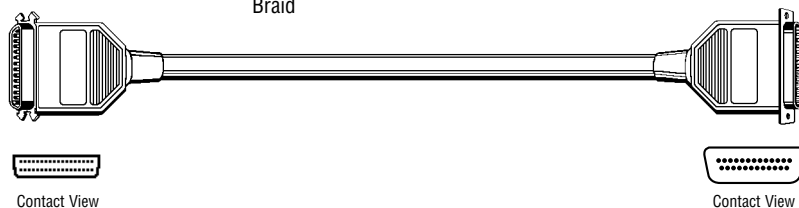
**Parallel Interface Assemblies** • Centronics/D-Sub Connectors • For computer-printer parallel interface

**Shielded • Foil plus Braid Shield (Super Shield) • Semi-rigid PVC Insulation • Chrome PVC Jacket**

|               |            |    |    |     |           |         |                               |                                        |      |      |     |      |      |      |      |
|---------------|------------|----|----|-----|-----------|---------|-------------------------------|----------------------------------------|------|------|-----|------|------|------|------|
| <b>49502A</b> | <b>new</b> | 25 | 10 | 3.0 | Male/Male | NEC: CM | 24 (7x32) Tinned Copper [.61] | Overall Foil + 65% Tinned Copper Braid | None | .010 | .25 | .040 | 1.02 | .370 | 9.40 |
|---------------|------------|----|----|-----|-----------|---------|-------------------------------|----------------------------------------|------|------|-----|------|------|------|------|

Universal 36-position ribbon connector (Centronics compatible) on one end and a 25-position D-Subminiature connector (IBM PC and PC-XT compatible) on the other. Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance.

300V 80°C, UL AWM Style 2464



| Part No. | Gender | Standard Lengths |   | Nom. Core OD |    | Nominal OD |    | AWG (stranding) [Dia. in in.] Nom. DCR | Shield Nom. DCR | Nom. Imped. (ohms) | Nom. Veloc. of Prop. | Nominal Capacitance |      | Nominal Attenuation |             |           |
|----------|--------|------------------|---|--------------|----|------------|----|----------------------------------------|-----------------|--------------------|----------------------|---------------------|------|---------------------|-------------|-----------|
|          |        | Ft.              | m | Inch         | mm | Inch       | mm |                                        |                 |                    |                      | pF/ft               | pF/m | MHz                 | dB/ 100 Ft. | dB/ 100 m |

**Coax Cable Assemblies** • BNC Connectors • For video display instrumentation, testing and control applications

**Shielded • Braid Shield (General Purpose) • Shielded RG-58C/U Coax • Polyethylene Insulation • Black PVC Jacket**

|              |           |   |      |      |      |      |      |               |               |    |     |      |       |      |      |      |
|--------------|-----------|---|------|------|------|------|------|---------------|---------------|----|-----|------|-------|------|------|------|
| <b>49200</b> | Male/Male | 1 | .31  | .116 | 2.95 | .195 | 4.95 | 20 (19x.007)  | 95%           | 50 | 66% | 30.8 | 101.0 | 50   | 3.3  | 10.8 |
| <b>49202</b> | Male/Male | 3 | .91  | .116 | 2.95 | .195 | 4.95 | [.89]         | Tinned Copper |    |     |      |       | 100  | 4.9  | 16.1 |
| <b>49203</b> | Male/Male | 4 | 1.20 | .116 | 2.95 | .195 | 4.95 | Tinned Copper | Braid         |    |     |      |       | 200  | 7.3  | 23.9 |
|              |           |   |      |      |      |      |      | 10.8Ω/M'      | 4.1Ω/M'       |    |     |      |       | 400  | 11.5 | 37.7 |
|              |           |   |      |      |      |      |      | 35.4Ω/km      | 13.4Ω/km      |    |     |      |       | 700  | 17.0 | 55.8 |
|              |           |   |      |      |      |      |      |               |               |    |     |      |       | 900  | 20.0 | 65.6 |
|              |           |   |      |      |      |      |      |               |               |    |     |      |       | 1000 | 21.5 | 70.5 |

Terminations reinforced with molded PVC for strain and flex relief.

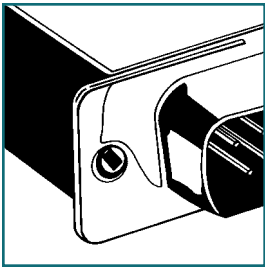
85°C. Packaged: S-25



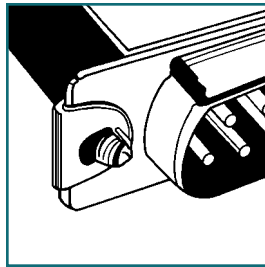


# Technical Information

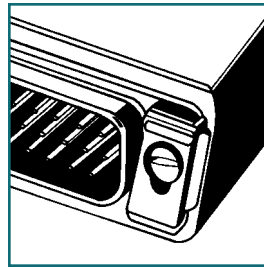
## D-Subminiature Retention Systems



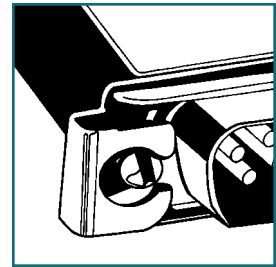
Friction



Screw

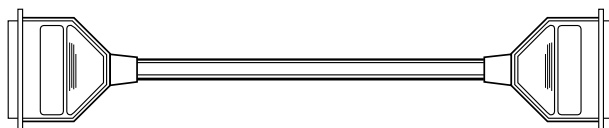


Vertical Slide Lock

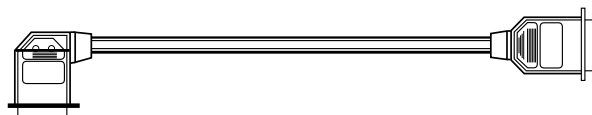


Horizontal Slide Lock

## How to Measure a Molded Cable Assembly



Length  
Straight Handled Connector



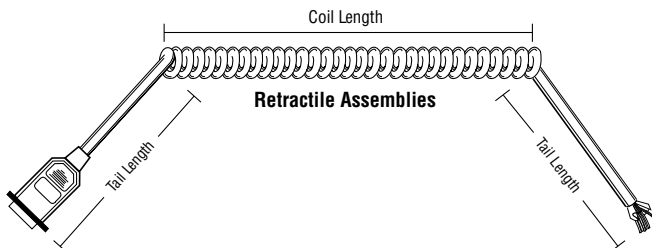
Length  
Angled Handled Connector



Length  
GPIB



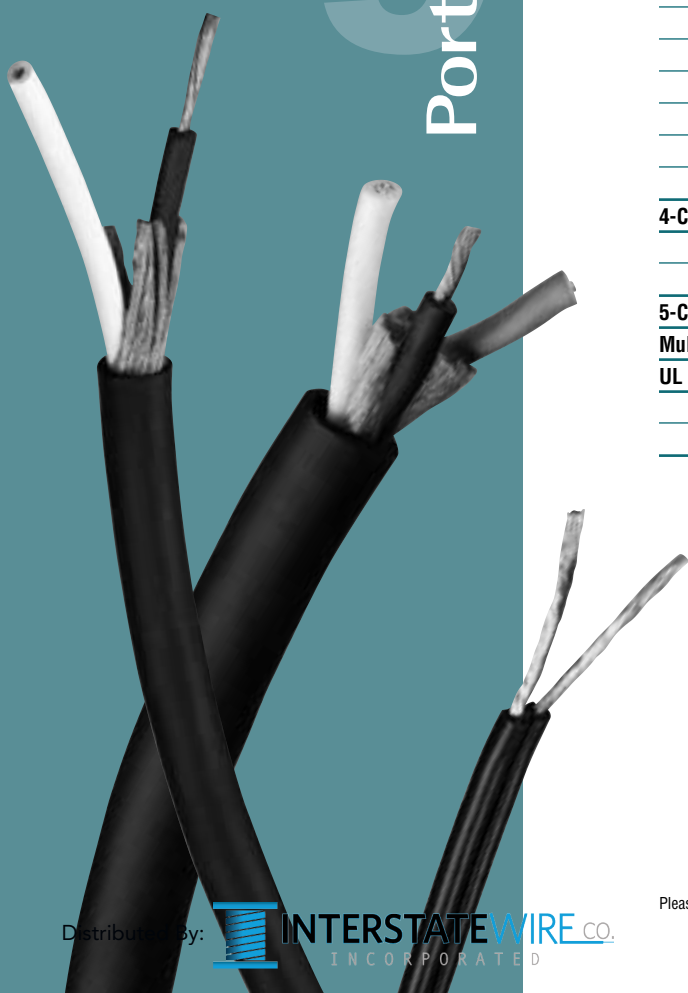
Length  
DIN



Coil Length  
Retractile Assemblies  
Tail Length



# Portable Cordage



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Introduction

Belden® portable cordage products are available in a wide assortment of styles, lengths, and thicknesses. Products offered include 2-, 3-, 4- and 5-conductor as well as multi-conductor constructions. Jacket options include PVC, Rubber, Oil-Resistant Rubber and Belflex®. Belflex is a premium PVC jacket compound (Class 43) that is superior to standard PVC for flexibility and durability.

Belden portable cordage is listed by Underwriters Laboratories Inc. (UL). This approval signifies that Underwriters Laboratories Inc. has approved all elements of the cordage as meeting their applicable construction and performance standards. Where indicated, “Certified to CSA Standards” means that Belden portable cordage has been certified by CSA as meeting their Label Service or Re-examination Service requirements. Certification under the applicable CSA Standards has been made mandatory by most provincial or municipal authorities in Canada.

Most of our portable cordage constructions are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find portable cordage in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Manufacturer’s Identification

Identification of the flexible cord is provided by our UL and CSA file numbers or printed name on the cord jacket.

UL/CSA File Numbers

- UL: E-3462
- CSA: LL-7874

Portable Cordage Packaging

Belden’s unique UnReel® cable dispenser is available for many of the portable cordage products listed in this section. The letter “U” before the specified put-up length denotes UnReel packaging.

Color Code Comparison by Function

| Color Coding  |                          | Function          |
|---------------|--------------------------|-------------------|
| International | North American Standards |                   |
| Light Blue    | White                    | N-Neutral         |
| Brown         | Black                    | L-Live            |
| Green/Yellow  | Green or Green/Yellow    | E-Earth or Ground |

## 2-Conductor

UL/CSA Types: SPT-1, SPT-2, SP-1 and HPN

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |    | Nom. Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|--------------|-----------------|---------------------------|----|-----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg |              |                 | Inch                      | mm | Inch                  | mm | Inch       | mm |

### SPT-1 PVC Parallel Lamp Cord • UL/CSA Listed

| 300V, 60°C • One conductor polarity ribbed                                        |       |        |         |      |     |                                  |                 |      |     |   |   |        |        |
|-----------------------------------------------------------------------------------|-------|--------|---------|------|-----|----------------------------------|-----------------|------|-----|---|---|--------|--------|
|  | 19122 | 250    | 76.2    | 6.3  | 2.8 | Brown, White, Black, Silver-Gray | 18 (42x34) bare | .032 | .81 | — | — | .110   | 2.79   |
|                                                                                   |       | 1000   | 304.8   | 21.0 | 9.5 |                                  |                 |      |     |   |   | x .207 | x 5.26 |
|                                                                                   | 8888* | 250    | 76.2    | 6.3  | 2.8 | Brown, Ivory                     | 18 (42x34) bare | .032 | .81 | — | — | .110   | 2.79   |
|                                                                                   |       | U-1000 | U-304.8 | 21.0 | 9.5 | Brown, Gray                      |                 |      |     |   |   | x .207 | x 5.26 |

### SPT-2 PVC Parallel Lamp Cord • UL/CSA Listed

| 300V, 60°C • One conductor polarity ribbed                                        |       |     |      |     |     |                     |                 |      |      |   |   |        |        |
|-----------------------------------------------------------------------------------|-------|-----|------|-----|-----|---------------------|-----------------|------|------|---|---|--------|--------|
|  | 19123 | 250 | 76.2 | 7.8 | 3.5 | Brown, White, Black | 18 (42x34) bare | .049 | 1.24 | — | — | .144   | 3.66   |
|                                                                                   |       |     |      |     |     |                     |                 |      |      |   |   | x .277 | x 7.04 |
|                                                                                   | 19126 | 250 | 76.2 | 9.8 | 4.4 | Brown, Black        | 16 (65x34) bare | .048 | 1.22 | — | — | .155   | 3.94   |
|                                                                                   |       |     |      |     |     |                     |                 |      |      |   |   | x .299 | x 7.59 |

### SP-1 Rubber Parallel Lamp Cord • UL Listed

| 300V, 60°C • One conductor polarity ribbed                                          |        |     |      |     |     |              |                 |      |     |   |   |        |        |
|-------------------------------------------------------------------------------------|--------|-----|------|-----|-----|--------------|-----------------|------|-----|---|---|--------|--------|
|  | 19115* | 250 | 76.2 | 7.5 | 3.4 | Brown, Black | 18 (41x34) bare | .035 | .89 | — | — | .123   | 3.12   |
|                                                                                     |        |     |      |     |     |              |                 |      |     |   |   | x .227 | x 5.77 |
|                                                                                     |        |     |      |     |     |              |                 |      |     |   |   |        |        |

### HPN CPE Heater Cord • UL/CSA Listed

| 300V, 90°C                                                                          |       |      |       |      |      |       |                  |      |      |   |   |        |        |
|-------------------------------------------------------------------------------------|-------|------|-------|------|------|-------|------------------|------|------|---|---|--------|--------|
|  | 19405 | 250  | 76.2  | 7.8  | 3.5  | Black | 18 (41x34) bare  | .047 | 1.18 | — | — | .140   | 3.56   |
|                                                                                     |       | 1000 | 304.8 | 30.0 | 13.6 |       |                  |      |      |   |   | x .276 | x 7.01 |
|                                                                                     | 19404 | 250  | 76.2  | 9.5  | 4.3  | Black | 16 (105x36) bare | .047 | 1.18 | — | — | .152   | 3.86   |
|                                                                                     |       | 1000 | 304.8 | 38.0 | 17.3 |       |                  |      |      |   |   | x .300 | x 7.62 |

\*Not CSA recognized.

## 2-Conductor

UL/CSA Types: SJ, SJO, SJTOW, SO

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |    | Nom. Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|--------------|-----------------|---------------------------|----|-----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg |              |                 | Inch                      | mm | Inch                  | mm | Inch       | mm |

### SJ Rubber Jacket • Smooth Jacket • UL/CSA Listed

#### 300V, 60°C • Paper Tape Separator • Color Code: Black, White



|      |      |       |      |      |       |                       |      |     |      |     |      |      |
|------|------|-------|------|------|-------|-----------------------|------|-----|------|-----|------|------|
| 8478 | 250  | 76.2  | 14.3 | 6.5  | Black | 18<br>(42x34)<br>bare | .032 | .81 | .035 | .89 | .290 | 7.37 |
|      | 1000 | 304.8 | 48.0 | 21.8 |       |                       |      |     |      |     |      |      |
| 8472 | 250  | 76.2  | 16.8 | 7.6  | Black | 16<br>(65x34)<br>bare | .033 | .84 | .035 | .89 | .315 | 8.00 |

### SJO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed

#### 300V, 90°C • Paper Tape Separator • Color Code: Black, White



|       |     |      |      |     |       |                       |      |     |      |     |      |      |
|-------|-----|------|------|-----|-------|-----------------------|------|-----|------|-----|------|------|
| 19227 | 250 | 76.2 | 14.8 | 6.7 | Black | 18<br>(16x30)<br>bare | .031 | .79 | .035 | .89 | .290 | 7.37 |
|       |     |      |      |     |       |                       |      |     |      |     |      |      |
| 19228 | 250 | 76.2 | 17.3 | 7.8 | Black | 16<br>(26x30)<br>bare | .031 | .79 | .035 | .89 | .315 | 8.00 |

### SJTOW Belflex® Matte Black Premium PVC • Smooth Jacket • UL/CSA Listed

#### 300V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown



|        |     |      |      |     |       |                       |      |     |      |     |      |      |
|--------|-----|------|------|-----|-------|-----------------------|------|-----|------|-----|------|------|
| 19506* | 250 | 76.2 | 11.0 | 5.0 | Black | 18<br>(42x34)<br>bare | .032 | .81 | .035 | .89 | .290 | 7.34 |
|        |     |      |      |     |       |                       |      |     |      |     |      |      |
| 19507* | 250 | 76.2 | 13.8 | 6.3 | Black | 16<br>(65x34)<br>bare | .033 | .84 | .037 | .94 | .319 | 8.10 |
| 19508* | 250 | 76.2 | 17.3 | 7.8 | Black | 14<br>(41x30)<br>bare | .033 | .84 | .032 | .81 | .340 | 8.64 |

### SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed

#### 600V, 90°C • Cotton Serve Separator • Color Code: Black, White



|       |     |      |      |      |       |                       |      |      |      |      |      |       |
|-------|-----|------|------|------|-------|-----------------------|------|------|------|------|------|-------|
| 19204 | 250 | 76.2 | 18.5 | 8.4  | Black | 18<br>(42x34)<br>bare | .032 | .81  | .065 | 1.65 | .360 | 9.14  |
|       |     |      |      |      |       |                       |      |      |      |      |      |       |
| 19203 | 250 | 76.2 | 21.0 | 9.5  | Black | 16<br>(65x34)<br>bare | .033 | .84  | .065 | 1.65 | .385 | 9.78  |
| 19202 | 250 | 76.2 | 39.5 | 18.0 | Black | 14<br>(41x30)<br>bare | .048 | 1.22 | .085 | 2.16 | .523 | 13.28 |

#### 600V, 90°C • Paper Tape Separator • Color Code: Black, White



|       |     |      |      |      |       |                       |      |      |      |      |      |       |
|-------|-----|------|------|------|-------|-----------------------|------|------|------|------|------|-------|
| 19201 | 250 | 76.2 | 52.8 | 24.0 | Black | 12<br>(65x30)<br>bare | .051 | 1.30 | .100 | 2.54 | .610 | 15.49 |
|-------|-----|------|------|------|-------|-----------------------|------|------|------|------|------|-------|

\*These constructions are approved as water-resistant, oil-resistant and for outdoor use.



By:



INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## 2-Conductor

UL/CSA Types: STOW, SV, SVT

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |    | Nom. Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|--------------|-----------------|---------------------------|----|-----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg |              |                 | Inch                      | mm | Inch                  | mm | Inch       | mm |

### STOW Belflex® Matte Black Premium PVC • Smooth Jacket • UL/CSA Listed

#### 600V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown

|                                                                                   |      |        |     |      |      |      |       |                       |      |      |      |      |      |       |
|-----------------------------------------------------------------------------------|------|--------|-----|------|------|------|-------|-----------------------|------|------|------|------|------|-------|
|  | VW-1 | 19500* | 250 | 76.2 | 16.0 | 7.3  | Black | 18<br>(42x34)<br>bare | .032 | .81  | .070 | 1.78 | .360 | 9.14  |
|                                                                                   |      | 19501* | 250 | 76.2 | 21.8 | 9.9  | Black | 16<br>(65x34)<br>bare | .033 | .84  | .070 | 1.78 | .386 | 9.80  |
|                                                                                   |      | 19502* | 250 | 76.2 | 34.0 | 15.5 | Black | 14<br>(41x30)<br>bare | .049 | 1.24 | .089 | 2.26 | .524 | 13.31 |

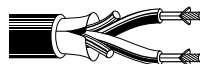
### SV Rubber Jacket • Serrated Jacket • UL/CSA Listed

#### 300V, 60°C • Cotton Serve Separator • Color Code: Black, White

|                                                                                   |      |        |         |      |      |       |                       |      |     |      |     |      |      |
|-----------------------------------------------------------------------------------|------|--------|---------|------|------|-------|-----------------------|------|-----|------|-----|------|------|
|  | 8452 | 250    | 76.2    | 9.5  | 4.3  | Black | 18<br>(42x34)<br>bare | .017 | .43 | .037 | .94 | .245 | 6.22 |
|                                                                                   |      | U-500  | U-152.4 | 18.5 | 8.4  |       |                       |      |     |      |     |      |      |
|                                                                                   |      | 500    | 152.4   | 19.0 | 8.6  |       |                       |      |     |      |     |      |      |
|                                                                                   |      | U-1000 | U-304.8 | 37.0 | 16.8 |       |                       |      |     |      |     |      |      |
|                                                                                   |      | 1000   | 304.8   | 38.0 | 17.3 |       |                       |      |     |      |     |      |      |

### SV Rubber Jacket • Smooth Jacket • UL/CSA Listed

#### 300V, 60°C • Cotton Serve Separator • Color Code: Black, White

|                                                                                     |       |     |      |     |     |       |                       |      |     |      |     |      |      |
|-------------------------------------------------------------------------------------|-------|-----|------|-----|-----|-------|-----------------------|------|-----|------|-----|------|------|
|  | 19120 | 250 | 76.2 | 9.5 | 4.3 | Black | 18<br>(42x34)<br>bare | .017 | .43 | .037 | .94 | .245 | 6.22 |
|-------------------------------------------------------------------------------------|-------|-----|------|-----|-----|-------|-----------------------|------|-----|------|-----|------|------|

### SVT PVC Jacket • Serrated Jacket • UL/CSA Listed

#### 300V, 60°C • Paper Tape Separator • Color Code: Black, White

|                                                                                     |       |     |      |     |     |             |                       |      |     |      |     |      |      |
|-------------------------------------------------------------------------------------|-------|-----|------|-----|-----|-------------|-----------------------|------|-----|------|-----|------|------|
|  | 19140 | 250 | 76.2 | 8.8 | 4.0 | Black, Gray | 18<br>(42x34)<br>bare | .018 | .46 | .036 | .91 | .243 | 6.17 |
|-------------------------------------------------------------------------------------|-------|-----|------|-----|-----|-------------|-----------------------|------|-----|------|-----|------|------|

\*These constructions are approved as water-resistant, oil-resistant and for outdoor use.

## 3-Conductor

UL/CSA Types: S, SO, SJ

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |    | Nom. Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|--------------|-----------------|---------------------------|----|-----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg |              |                 | Inch                      | mm | Inch                  | mm | Inch       | mm |

### S Rubber Jacket • Smooth Jacket • UL/CSA Listed

#### 600V, 60°C • Cotton Serve Separator • Color Code: Black, White, Green



|       |     |      |      |      |       |                       |      |     |      |      |      |       |
|-------|-----|------|------|------|-------|-----------------------|------|-----|------|------|------|-------|
| 19109 | 250 | 76.2 | 20.8 | 9.4  | Black | 18<br>(42x34)<br>bare | .032 | .81 | .065 | 1.65 | .380 | 9.65  |
| 19108 | 250 | 76.2 | 27.5 | 12.5 | Black | 16<br>(65x34)<br>bare | .033 | .84 | .065 | 1.65 | .405 | 10.29 |

#### 600V, 60°C • Paper Tape Separator • Color Code: Black, White, Green



|       |     |      |      |      |       |                        |      |      |      |      |      |       |
|-------|-----|------|------|------|-------|------------------------|------|------|------|------|------|-------|
| 19107 | 250 | 76.2 | 44.0 | 20.0 | Black | 14<br>(41x30)<br>bare  | .048 | 1.22 | .085 | 2.16 | .535 | 13.59 |
| 19106 | 250 | 76.2 | 61.8 | 28.1 | Black | 12<br>(65x30)<br>bare  | .051 | 1.30 | .099 | 2.51 | .640 | 16.26 |
| 19105 | 250 | 76.2 | 78.0 | 35.5 | Black | 10<br>(105x30)<br>bare | .050 | 1.27 | .099 | 2.51 | .681 | 17.30 |

### SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed

#### 600V, 90°C • Cotton Serve Separator • Color Code: Black, White, Green



|       |     |      |      |      |       |                       |      |     |      |      |      |       |
|-------|-----|------|------|------|-------|-----------------------|------|-----|------|------|------|-------|
| 19209 | 250 | 76.2 | 21.3 | 9.7  | Black | 18<br>(42x34)<br>bare | .032 | .81 | .065 | 1.65 | .380 | 9.65  |
| 19208 | 250 | 76.2 | 26.5 | 12.0 | Black | 16<br>(65x34)<br>bare | .033 | .84 | .063 | 1.60 | .400 | 10.16 |

#### 600V, 90°C • Paper Tape Separator • Color Code: Black, White, Green



|       |     |      |      |      |       |                        |      |      |      |      |      |       |
|-------|-----|------|------|------|-------|------------------------|------|------|------|------|------|-------|
| 19207 | 250 | 76.2 | 45.3 | 20.6 | Black | 14<br>(41x30)<br>bare  | .048 | 1.22 | .086 | 2.18 | .538 | 13.67 |
| 19206 | 250 | 76.2 | 62.8 | 28.5 | Black | 12<br>(65x30)<br>bare  | .051 | 1.30 | .100 | 2.54 | .632 | 16.05 |
| 19205 | 250 | 76.2 | 79.3 | 36.0 | Black | 10<br>(105x30)<br>bare | .050 | 1.27 | .099 | 2.51 | .681 | 17.30 |

### SJ Rubber Jacket • Smooth Jacket • UL/CSA Listed

#### 300V, 60°C • Paper Tape Separator • Color Code: Black, White, Green



|       |     |      |      |     |       |                       |      |     |      |     |      |      |
|-------|-----|------|------|-----|-------|-----------------------|------|-----|------|-----|------|------|
| 19129 | 250 | 76.2 | 17.8 | 8.1 | Black | 18<br>(16x30)<br>bare | .031 | .79 | .039 | .99 | .315 | 8.00 |
| 19125 | 250 | 76.2 | 17.3 | 7.8 | Black | 18<br>(42x34)<br>bare | .032 | .81 | .038 | .97 | .315 | 8.00 |
| 19130 | 250 | 76.2 | 19.3 | 8.8 | Black | 16<br>(26x30)<br>bare | .031 | .79 | .038 | .97 | .340 | 8.64 |
| 19124 | 250 | 76.2 | 18.5 | 8.4 | Black | 16<br>(65x34)<br>bare | .033 | .84 | .038 | .97 | .340 | 8.64 |
| 8479  | 250 | 76.2 | 7.8  | 3.5 | Black | 14<br>(41x30)<br>bare | .033 | .84 | .039 | .99 | .380 | 9.65 |



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### 3-Conductor

UL/CSA Types: SJO, SJT

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |    | Nom. Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|--------------|-----------------|---------------------------|----|-----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg |              |                 | Inch                      | mm | Inch                  | mm | Inch       | mm |

#### SJO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed

##### 300V, 90°C • Paper Tape Separator • Color Code: Black, White, Green



|       |     |      |      |     |       |                       |      |     |      |     |      |      |
|-------|-----|------|------|-----|-------|-----------------------|------|-----|------|-----|------|------|
| 19229 | 250 | 76.2 | 18.0 | 8.2 | Black | 18<br>(16x30)<br>bare | .031 | .79 | .039 | .99 | .315 | 8.00 |
| 19230 | 250 | 76.2 | 19.3 | 8.8 | Black | 16<br>(26x30)<br>bare | .031 | .79 | .038 | .97 | .340 | 8.64 |

#### SJT PVC Jacket • Serrated Jacket • UL/CSA Listed

##### 300V, 60°C • Paper Tape Separator • Color Code: Black, White, Green (18 AWG); Black, White, Green/Yellow (16 AWG)



|       |     |      |      |     |                |                       |      |     |      |      |      |      |
|-------|-----|------|------|-----|----------------|-----------------------|------|-----|------|------|------|------|
| 19348 | 250 | 76.2 | 17.5 | 8.0 | Gray,<br>Black | 18<br>(42x34)<br>bare | .032 | .81 | .046 | 1.17 | .328 | 8.33 |
| 19349 | 250 | 76.2 | 18.5 | 8.4 | Gray,<br>Black | 16<br>(65x34)<br>bare | .033 | .83 | .038 | .97  | .340 | 8.64 |

#### SJT PVC Jacket • Smooth Jacket • UL/CSA Listed

##### 300V, 60°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow



|       |     |      |      |      |       |                       |      |     |      |      |      |      |
|-------|-----|------|------|------|-------|-----------------------|------|-----|------|------|------|------|
| 19352 | 250 | 76.2 | 17.5 | 8.0  | Black | 18<br>(42x34)<br>bare | .032 | .81 | .046 | 1.17 | .328 | 8.33 |
| 19353 | 250 | 76.2 | 19.8 | 9.0  | Black | 16<br>(65x34)<br>bare | .033 | .84 | .036 | .91  | .353 | 8.97 |
| 19354 | 250 | 76.2 | 25.0 | 11.4 | Black | 14<br>(41x30)<br>bare | .033 | .84 | .038 | .97  | .380 | 9.65 |

#### SJT PVC Jacket • Shielded • Smooth Jacket • 20 AWG Drain Wire (7x28) • UL/CSA Listed

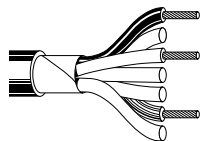
##### 300V, 60°C Shielded • Beldfoil® 100% Shield Coverage • International Color Code: Light Blue, Brown, Green/Yellow



|       |     |       |      |      |       |                       |      |     |      |      |      |       |
|-------|-----|-------|------|------|-------|-----------------------|------|-----|------|------|------|-------|
| 19362 | 250 | 76.2  | 17.5 | 8.0  | Black | 18<br>(42x34)<br>bare | .032 | .81 | .050 | 1.27 | .340 | 8.64  |
|       | 500 | 152.4 | 35.0 | 15.9 |       |                       |      |     |      |      |      |       |
| 19363 | 250 | 76.2  | 21.3 | 9.7  | Black | 16<br>(65x34)<br>bare | .033 | .84 | .047 | 1.19 | .365 | 9.27  |
| 19364 | 250 | 76.2  | 26.3 | 11.9 | Black | 14<br>(41x30)<br>bare | .033 | .84 | .042 | 1.07 | .402 | 10.21 |

#### SJT PVC Jacket • Low Leakage Power Cord • Smooth Jacket • UL Listed

##### 300V, 75°C • Paper Tape Separator • Color Code: Black, White, Green



|       |      |       |       |      |      |                 |      |     |      |      |      |       |
|-------|------|-------|-------|------|------|-----------------|------|-----|------|------|------|-------|
| 9998* | 500  | 152.4 | 53.0  | 24.1 | Gray | 16              | .033 | .84 | .045 | 1.14 | .475 | 12.07 |
|       | 1000 | 304.8 | 102.0 | 46.4 | Blue | (65x34)<br>bare |      |     |      |      |      |       |

\*Not CSA recognized.



## 3-Conductor

UL/CSA Types: SJTOW, STOW, SV, SVT

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |    | Nom. Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|--------------|-----------------|---------------------------|----|-----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg |              |                 | Inch                      | mm | Inch                  | mm | Inch       | mm |

### SJTOW Belflex® Matte Black Premium PVC • Smooth Jacket • UL/CSA Listed

**300V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow**

|                                                                                  |      |               |     |      |      |      |       |                       |      |     |      |      |      |      |
|----------------------------------------------------------------------------------|------|---------------|-----|------|------|------|-------|-----------------------|------|-----|------|------|------|------|
|  | VW-1 | <b>19509*</b> | 250 | 76.2 | 14.0 | 6.4  | Black | 18<br>(42x34)<br>bare | .032 | .81 | .038 | .97  | .315 | 8.00 |
|                                                                                  |      | <b>19510*</b> | 250 | 76.2 | 18.0 | 8.2  | Black | 16<br>(65x34)<br>bare | .033 | .84 | .038 | .97  | .340 | 8.64 |
|                                                                                  |      | <b>19511*</b> | 250 | 76.2 | 23.8 | 10.8 | Black | 14<br>(41x30)<br>bare | .032 | .81 | .040 | 1.02 | .380 | 9.65 |

### STOW Belflex Matte Black Premium PVC • Smooth Jacket • UL/CSA Listed

**600V, 105°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow**

|                                                                                  |      |               |     |      |      |      |       |                       |      |      |      |      |      |       |
|----------------------------------------------------------------------------------|------|---------------|-----|------|------|------|-------|-----------------------|------|------|------|------|------|-------|
|  | VW-1 | <b>19503*</b> | 250 | 76.2 | 19.0 | 8.6  | Black | 18<br>(42x34)<br>bare | .032 | .81  | .070 | 1.78 | .380 | 9.65  |
|                                                                                  |      | <b>19504*</b> | 250 | 76.2 | 23.0 | 10.5 | Black | 16<br>(65x34)<br>bare | .033 | .84  | .070 | 1.78 | .405 | 10.29 |
|                                                                                  |      | <b>19505*</b> | 250 | 76.2 | 42.5 | 19.3 | Black | 14<br>(41x30)<br>bare | .049 | 1.24 | .089 | 2.26 | .558 | 14.17 |

### SV Rubber Jacket • Smooth Jacket • UL/CSA Listed

**300V, 60°C • Cotton Serve Separator • Color Code: Black, White, Green**

|                                                                                    |  |             |     |       |      |      |       |                         |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|--|-------------|-----|-------|------|------|-------|-------------------------|------|-----|------|-----|------|------|
|  |  | <b>8453</b> | 100 | 30.5  | 5.6  | 2.5  | Black | 18<br>(41x34)<br>tinned | .018 | .46 | .036 | .91 | .256 | 6.50 |
|                                                                                    |  |             | 500 | 152.4 | 23.0 | 10.5 |       |                         |      |     |      |     |      |      |

### SVT PVC Jacket • Serrated Jacket • UL/CSA Listed

**300V, 60°C • Paper Tape Separator • Color Code: Black, White, Green**

|                                                                                    |  |              |     |      |      |     |      |                       |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|--|--------------|-----|------|------|-----|------|-----------------------|------|-----|------|-----|------|------|
|  |  | <b>19350</b> | 250 | 76.2 | 10.8 | 4.9 | Gray | 18<br>(42x34)<br>bare | .018 | .46 | .038 | .97 | .253 | 6.43 |
|                                                                                    |  |              |     |      |      |     |      |                       |      |     |      |     |      |      |

### SVT PVC Jacket • Smooth Jacket • UL/CSA Listed

**300V, 60°C • Paper Tape Separator • International Color Code: Light Blue, Brown, Green/Yellow**

|                                                                                    |  |              |     |      |      |     |       |                       |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|--|--------------|-----|------|------|-----|-------|-----------------------|------|-----|------|-----|------|------|
|  |  | <b>19402</b> | 250 | 76.2 | 12.3 | 5.6 | Black | 18<br>(42x34)<br>bare | .018 | .46 | .034 | .86 | .253 | 6.43 |
|                                                                                    |  |              |     |      |      |     |       |                       |      |     |      |     |      |      |

\*These constructions are approved as water-resistant, oil-resistant and for outdoor use.



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### 3-, 4- and 5-Conductor

UL/CSA Type: SVT, SO

UL AWM Styles: 4097 and 4256

| Description | Part No. | Standard Lengths |   | Standard Unit Weight |    | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |    | Nom. Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------|---|----------------------|----|--------------|-----------------|---------------------------|----|-----------------------|----|------------|----|
|             |          | Ft.              | m | Lbs.                 | kg |              |                 | Inch                      | mm | Inch                  | mm | Inch       | mm |

#### 3-Conductor SVT PVC Jacket • Shielded • Smooth Jacket • 22 AWG Drain Wire (7x30) • UL/CSA Listed

##### 300V, 60°C Shielded • Beldfoil® 100% Shield Coverage • International Color Code: Light Blue, Brown, Green/Yellow



|       |      |       |      |      |       |                       |      |     |      |      |      |      |
|-------|------|-------|------|------|-------|-----------------------|------|-----|------|------|------|------|
| 19401 | 250  | 76.2  | 12.3 | 5.6  | Black | 18<br>(42x34)<br>bare | .018 | .46 | .043 | 1.09 | .270 | 6.86 |
|       | 1000 | 304.8 | 49.0 | 22.3 |       |                       |      |     |      |      |      |      |

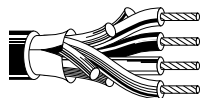
##### 300V, 60°C Shielded • Duofoil® 100% Shield Coverage • 88% Braid Coverage • International Color Code: Light Blue, Brown, Green/Yellow



|       |     |      |      |     |       |                       |      |     |      |     |      |      |
|-------|-----|------|------|-----|-------|-----------------------|------|-----|------|-----|------|------|
| 19403 | 250 | 76.2 | 18.0 | 8.2 | Black | 18<br>(42x34)<br>bare | .018 | .46 | .038 | .97 | .307 | 7.80 |
|       |     |      |      |     |       |                       |      |     |      |     |      |      |

#### 4-Conductor Rubber Jacket • Smooth Jacket • Style 4097

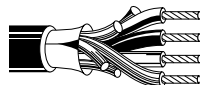
##### 300V, 60°C • Paper Tape Separator • Color Code: Black, White, Brown, Red



|       |        |         |      |      |       |                         |      |     |      |     |      |      |
|-------|--------|---------|------|------|-------|-------------------------|------|-----|------|-----|------|------|
| 8454* | 100    | 30.5    | 6.5  | 3.0  | Black | 18<br>(41x34)<br>tinned | .018 | .46 | .036 | .91 | .265 | 6.73 |
|       | U-500  | U-152.4 | 27.0 | 12.3 |       |                         |      |     |      |     |      |      |
|       | 500    | 152.4   | 27.0 | 12.3 |       |                         |      |     |      |     |      |      |
|       | U-1000 | U-304.8 | 53.0 | 24.1 |       |                         |      |     |      |     |      |      |
|       | 1000   | 304.8   | 54.0 | 24.5 |       |                         |      |     |      |     |      |      |

#### 4-Conductor SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed

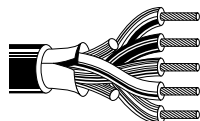
##### 600V, 90°C • Paper Tape Separator • Color Code: Black, White, Green, Red



|       |     |      |      |      |       |                       |      |      |      |      |      |       |
|-------|-----|------|------|------|-------|-----------------------|------|------|------|------|------|-------|
| 19217 | 50  | 15.2 | 13.8 | 6.3  | Black | 14<br>(41x30)<br>bare | .048 | 1.22 | .087 | 2.21 | .603 | 15.32 |
|       | 200 | 60.9 | 45.2 | 20.5 |       |                       |      |      |      |      |      |       |
| 19216 | 50  | 15.2 | 17.2 | 7.8  | Black | 12<br>(65x30)<br>bare | .051 | 1.30 | .102 | 2.59 | .690 | 17.53 |
|       | 200 | 60.9 | 61.8 | 28.1 |       |                       |      |      |      |      |      |       |

#### 5-Conductor Rubber Jacket • Smooth Jacket • Style 4256

##### 300V, 60°C • Paper Tape Separator • Color Code: Brown, Green, White, Black, Red

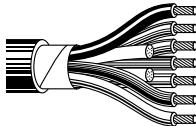


|       |        |         |      |      |       |                           |      |     |      |     |      |      |
|-------|--------|---------|------|------|-------|---------------------------|------|-----|------|-----|------|------|
| 8455* | 250    | 76.2    | 15.8 | 7.2  | Black | 3-20<br>(26x34)<br>tinned | .018 | .46 | .031 | .79 | .280 | 7.11 |
|       | U-500  | U-152.4 | 25.0 | 11.4 |       |                           |      |     |      |     |      |      |
|       | U-1000 | U-304.8 | 51.0 | 23.2 |       |                           |      |     |      |     |      |      |
|       |        |         |      |      |       | 2-18<br>(41x34)<br>tinned |      |     |      |     |      |      |

\*Not CSA recognized.

## Multi-Conductor

### Power and Control Cables

| Description                                                                                                      | Part No. | No. of Cond. | Standard Lengths |       | Standard Unit Weight |       | Jacket Color | AWG (stranding) | Nom. Insulation Thickness |     | Nom. Jacket Thickness |      | Nominal OD |       |
|------------------------------------------------------------------------------------------------------------------|----------|--------------|------------------|-------|----------------------|-------|--------------|-----------------|---------------------------|-----|-----------------------|------|------------|-------|
|                                                                                                                  |          |              | Ft.              | m     | Lbs.                 | kg    |              |                 | Inch                      | mm  | Inch                  | mm   | Inch       | mm    |
| SO Oil-Resistant Rubber Jacket • Smooth Jacket • UL/CSA Listed                                                   |          |              |                  |       |                      |       |              |                 |                           |     |                       |      |            |       |
| 600V, 60°C • Conductors Cabled with Fillers • Paper Tape Separator • Color Code: See Chart 2 (Tech Info Section) |          |              |                  |       |                      |       |              |                 |                           |     |                       |      |            |       |
|                                  | 9420     | 5            | 100              | 30.5  | 14.9                 | 6.8   | Black        | 16 (65x34) bare | .033                      | .84 | .084                  | 2.13 | .506       | 12.85 |
|                                                                                                                  |          |              | 500              | 152.4 | 73.5                 | 33.4  |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  |          |              | 1000             | 304.8 | 143.0                | 65.0  |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  | 9422     | 7            | 100              | 30.5  | 20.3                 | 9.2   | Black        | 16 (65x34) bare | .033                      | .84 | .083                  | 2.11 | .581       | 14.76 |
|                                                                                                                  |          |              | 500              | 152.4 | 101.0                | 45.9  |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  |          |              | 1000             | 304.8 | 201.0                | 91.4  |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  | 9424     | 9            | 100              | 30.5  | 28.6                 | 13.0  | Black        | 16 (65x34) bare | .033                      | .84 | .100                  | 2.54 | .720       | 18.29 |
|                                                                                                                  |          |              | 500              | 152.4 | 150.5                | 68.4  |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  |          |              | 1000             | 304.8 | 288.0                | 130.9 |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  | 9425     | 12           | 100              | 30.5  | 31.6                 | 14.4  | Black        | 16 (65x34) bare | .033                      | .84 | .100                  | 2.54 | .720       | 18.29 |
|                                                                                                                  |          |              | 500              | 152.4 | 165.5                | 75.2  |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  |          |              | 1000             | 304.8 | 318.0                | 144.5 |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  | 9427     | 16           | 100              | 30.5  | 41.2                 | 18.7  | Black        | 16 (65x34) bare | .033                      | .84 | .100                  | 2.54 | .787       | 19.99 |
|                                                                                                                  |          |              | 1000             | 304.8 | 428.0                | 194.5 |              |                 |                           |     |                       |      |            |       |
|                                                                                                                  | 9429     | 20           | 100              | 30.5  | 48.4                 | 22.0  | Black        | 16 (65x34) bare | .033                      | .84 | .100                  | 2.54 | .862       | 21.89 |
| 500                                                                                                              |          |              | 152.4            | 233.0 | 105.9                |       |              |                 |                           |     |                       |      |            |       |



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## UL Cordage Type

### Designation

| UL Cord Type | Description                                       |
|--------------|---------------------------------------------------|
| <b>HPN</b>   | Heater Parallel Neoprene                          |
| <b>HSJ</b>   | Heater Service Junior                             |
| <b>HSJO</b>  | HSJ with Oil-Resistant Jacket                     |
| <b>S</b>     | Service                                           |
| <b>SE</b>    | Service Elastomer                                 |
| <b>SEO</b>   | SE with Oil-Resistant Jacket                      |
| <b>SE00</b>  | SEO with Oil-Resistant Insulation                 |
| <b>SJ</b>    | Service Junior                                    |
| <b>SJE</b>   | Service Junior Elastomer                          |
| <b>SJEO</b>  | SJE with Oil-Resistant Jacket                     |
| <b>SJE00</b> | SJEO with Oil-Resistant Insulation                |
| <b>SJO</b>   | SJ with Oil-Resistant Jacket                      |
| <b>SJO0</b>  | SJO with Oil-Resistant Insulation                 |
| <b>SJT</b>   | Service Junior Thermoplastic                      |
| <b>SJTO</b>  | SJT with Oil-Resistant Jacket                     |
| <b>SJT00</b> | SJTO with Oil-Resistant Insulation                |
| <b>SO</b>    | Service with Oil-Resistant Jacket                 |
| <b>SO0</b>   | SO with Oil-Resistant Insulation                  |
| <b>SP-1</b>  | Service Parallel — 1/32" Insulation               |
| <b>SP-2</b>  | Service Parallel — 3/64" Insulation               |
| <b>SP-3</b>  | Service Parallel — 1/16" Insulation               |
| <b>SPE-1</b> | Service Parallel Elastomer — 1/32" Insulation     |
| <b>SPE-2</b> | Service Parallel Elastomer — 3/64" Insulation     |
| <b>SPE-3</b> | Service Parallel Elastomer — 1/16" Insulation     |
| <b>SPT-1</b> | Service Parallel Thermoplastic — 1/32" Insulation |
| <b>SPT-2</b> | Service Parallel Thermoplastic — 3/64" Insulation |
| <b>SPT-3</b> | Service Parallel Thermoplastic — 1/16" Insulation |
| <b>ST</b>    | Service Thermoplastic                             |
| <b>STO</b>   | ST with Oil-Resistant Jacket                      |
| <b>ST00</b>  | STO with Oil-Resistant Insulation                 |
| <b>SV</b>    | Service Vacuum                                    |
| <b>SVE</b>   | Service Vacuum Elastomer                          |
| <b>SVE0</b>  | SVE with Oil-Resistant Jacket                     |
| <b>SVE00</b> | SVE0 with Oil-Resistant Insulation                |
| <b>SVO</b>   | SV with Oil-Resistant Jacket                      |
| <b>SVO0</b>  | SVO with Oil-Resistant Insulation                 |
| <b>SVT</b>   | Service Vacuum Thermoplastic                      |
| <b>SVTO</b>  | SVT with Oil-Resistant Jacket                     |
| <b>SVT00</b> | SVTO with Oil-Resistant Insulation                |
| <b>TPT</b>   | Tinsel Parallel Thermoplastic                     |
| <b>TST</b>   | Tinsel Service Thermoplastic                      |
| <b>XT</b>    | Christmas Tree Thermoplastic                      |

NOTE: Service parallel types—wall thickness for integral construction.

Elastomer is a thermoplastic material with elastomeric properties similar to rubber.

## UL Cordage Type

### Construction and Rating

| Cord Type* | AWG Size Range | No. of Cond.         | Conductor Insulation Material and Min. Average Thickness (inches) | Jacket Material and Min. Average Thickness** (inches) | Temperature Rating (°C) <sup>†</sup> |             | Voltage Rating |
|------------|----------------|----------------------|-------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------|-------------|----------------|
|            |                |                      |                                                                   |                                                       | Standard                             | Other       |                |
| HPN        | 18 – 12        | 2 or 3 <sup>††</sup> | .045 Rubber                                                       |                                                       | 90                                   | 105         | 300            |
| HSJ        | 18 – 12        | 2, 3, 4              | .030 Rubber <sup>††</sup>                                         | .030 Rubber                                           | 90                                   |             | 300            |
| HSJO       | 18 – 12        | 2, 3, 4              | .030 Rubber <sup>▲</sup>                                          | .030 Oil-Resistant Rubber                             | 90                                   |             | 300            |
| S          | 18 – 2         | 2 or more            | .030 Rubber <sup>▲</sup>                                          | .060 Rubber <sup>▲</sup>                              | 60                                   | 75, 90      | 600            |
| SE         | 18 – 2         | 2 or more            | .030 Elastomer                                                    | .060 Elastomer                                        | 105                                  |             | 600            |
| SEO        | 18 – 2         | 2 or more            | .030 Elastomer                                                    | .060 Elastomer                                        | 105                                  |             | 600            |
| SJ         | 18 – 10        | 2, 3, 4              | .030 Rubber <sup>▲</sup>                                          | .030 Rubber                                           | 60                                   | 75, 90      | 300            |
| SJE        | 18 – 10        | 2, 3, 4, 5           | .030 Elastomer <sup>††</sup>                                      | .030 Elastomer                                        | 105                                  |             | 300            |
| SJEO       | 18 – 10        | 2, 3, 4, 5           | .030 Elastomer                                                    | .030 Elastomer                                        | 105                                  |             | 300            |
| SJO        | 18 – 10        | 2, 3, 4              | .030 Rubber <sup>▲</sup>                                          | .030 Oil-Resistant Rubber                             | 60                                   | 75, 90, 105 | 300            |
| SJT        | 18 – 10        | 2, 3, 4              | .030 Plastic <sup>◆</sup>                                         | .030 Plastic                                          | 60                                   | 75, 90, 105 | 300            |
| SJTO       | 18 – 10        | 2, 3, 4              | .030 Plastic <sup>◆</sup>                                         | .030 Plastic                                          | 60                                   | 75, 90, 105 | 300            |
| SO         | 18 – 2         | 2 or more            | .030 Rubber <sup>▲</sup>                                          | .060 Oil-Resistant Rubber <sup>▲</sup>                | 60                                   | 75, 90      | 600            |
| SP-1       | 18             | 2 or 3 <sup>††</sup> | .030 Rubber                                                       |                                                       | 60                                   |             | 300            |
| SP-2       | 18 – 16        | 2 or 3 <sup>††</sup> | .045 Rubber                                                       |                                                       | 60                                   |             | 300            |
| SP-3       | 18 – 12        | 2 or 3 <sup>††</sup> | .060 Rubber <sup>▲</sup>                                          |                                                       | 60                                   |             | 300            |
| SPT-1      | 18             | 2 or 3 <sup>††</sup> | .030 Plastic                                                      |                                                       | 60                                   | 75, 90, 105 | 300            |
| SPT-2      | 18 – 16        | 2 or 3 <sup>††</sup> | .045 Plastic                                                      |                                                       | 60                                   | 75, 90, 105 | 300            |
| SPT-3      | 18 – 10        | 2 or 3 <sup>††</sup> | .060 Plastic <sup>▲</sup>                                         |                                                       | 60                                   | 75, 90, 105 | 300            |
| ST         | 18 – 2         | 2 or more            | .030 Plastic <sup>▲</sup>                                         | .060 Plastic <sup>▲</sup>                             | 60                                   | 75, 90, 105 | 600            |
| STO        | 18 – 2         | 2 or more            | .030 Plastic <sup>▲</sup>                                         | .060 Plastic <sup>▲</sup>                             | 60                                   | 75, 90, 105 | 600            |
| SV         | 18             | 2 or 3 <sup>††</sup> | .015 Rubber                                                       | .030 Rubber                                           | 60                                   | 75, 90      | 300            |
| SVE        | 18 – 17        | 2 or 3 <sup>††</sup> | .015 Elastomer                                                    | .030 Elastomer                                        | 105                                  |             | 300            |
| SVEO       | 18 – 17        | 2 or 3 <sup>††</sup> | .015 Elastomer                                                    | .030 Elastomer                                        | 105                                  |             | 300            |
| SVO        | 18             | 2 or 3 <sup>††</sup> | .015 Rubber                                                       | .030 Oil-Resistant Rubber                             | 60                                   | 75, 90      | 300            |
| SVT        | 18 – 17        | 2 or 3 <sup>††</sup> | .015 Plastic                                                      | .030 Plastic                                          | 60                                   | 75, 90, 105 | 300            |
| SVTO       | 18 – 17        | 2 or 3 <sup>††</sup> | .015 Plastic                                                      | .030 Plastic                                          | 60                                   | 75, 90, 105 | 300            |
| TPT        | 27 (Tinsel)    | 2                    | .030 Plastic                                                      |                                                       | 60                                   |             | 250            |
| TST        | 27 (Tinsel)    | 2                    | .015 Plastic                                                      | .030 Rubber                                           | 60                                   |             | 125            |

\* Types SVO, SVTO, SJO, SJTO, SO, STO and HSJO have jackets which are also recognized for oil resistance at maximum temperature of 60°C. Types SJ, SJO, SJT, SJTO, S, SO, ST and STO may also be made for outdoor use and will be indicated by adding a "W" suffix to the cord type. Similarly, types SJ, SJTO, SJO, SJT, S, SO, ST and STO may also be made in water-resistant grades with "Water-Resistant" printed on the jacket. 3-wire SJT may be made in special low-leakage constructions for medical equipment cords.

\*\* Where no jacket is shown, the construction is integral or flat style with insulation also serving as jacket.

† For cordage ratings higher than 60°C, the temperature limit is printed on the outside of the jacket. This does not apply to heater cordage type HPN, rated 90°C, or 105°C.

†† Recognized in three conductors when third or center conductor (with Green or Green/Yellow stripe) is used for equipment grounding.

▲ Insulation and jacket thickness depend on cordage size. Thickness as shown are for 18 and 16 AWG.

◆ Insulation and jacket thickness depend on cordage size.  
No. 12 AWG requires .030" conductor insulation thickness and .045" jacket thickness.  
No. 10 AWG requires .045" conductor insulation thickness and .060" jacket thickness.

The term Elastomer refers to thermoplastic elastomer.





# Fiber Optic Cables

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## Introduction

The Belden® BelOptix® fiber optic cable line is designed to answer the diverse, and often complex, needs of today's advanced networks. Not only do these cables future-proof your network, they also fully organize your network while protecting it from the environment.

Belden fiber optic cables have become the natural choice for closed circuit television, government network circuitry, factory automation and major commercial networks. In applications such as video conferencing, medical imaging, and CAD/CAM, Belden fiber optics feature unparalleled performance. The cable has become essential for bringing light-speed communication to hospitals, corporate campuses, educational facilities, and more.

Among the many features found in the Belden BelOptix fiber optic cable line are:

- **Ritestrip® II** Ritestrip II 900 micron buffered fiber is designed to consistently and easily strip to 250 microns or down to 125 microns. It expedites preparation for traditional epoxy and crimp-style, direct-connect ST and SC applications. Ritestrip II also improves preparation of mechanical or fusion splicing requirements.
- **LCF™ (Laser Certified Fiber)** The BelOptix line features LCF to handle the new light sources required in short wavelength Gigabit Ethernet systems. The light sources, named VCSEL (Vertical Cavity Surface Emitting Lasers), are designed to operate at the short wavelength of 850nm, the same wavelength as today's LED light sources. Belden's LCF 62.5 and 50 micron multimode fiber ensures compliance with laser technology. The LCF fiber utilizes enhanced bandwidth and tight attenuation limits to meet and exceed the EIA/TIA-TSB72 300 meter backbone length. LCF fiber has been deployed across the entire BelOptix cable series. It is operational with current LED light sources and exceeds FDDI+ performance specifications. LCF is also able to handle low-cost, long wavelength VCSEL light sources.

### LCF Lengths for Gigabit Ethernet

| Core Size | Wavelengths | SX   | LX   |
|-----------|-------------|------|------|
| 62.5      | 850nm       | 300m | N/A  |
|           | 1300nm      | N/A  | 550m |
| 50.0      | 850nm       | 600m | N/A  |
|           | 1300nm      | N/A  | 600m |

## Customer Service

Most of our fiber optic cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a fiber optic cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1 for additional information.

In addition, Belden fiber optic cables are provided in standard put-up lengths. A cutting charge will be assessed per item, per cut.

## Matchmaker Warranty®

Belden's Matchmaker® Certified Link Warranty provides the freedom to choose a connectivity solution from any UL verified manufacturer of patch panels, wall plates or connectors — in addition to Belden cable. It is a transferable program that provides complete flexibility for network design and the added reassurance that the industry leader in cable is backing your installation for a lifetime. Matchmaker is a Warranty Certification to industry standards ANSI EIA/TIA-568-A (1995) and EN50173 (1995).

## Fiber Optic Cable Packaging

### Reel Identification

Belden shipping labels provide in-depth cable information. Footage, diameter, fiber count, lot number and UL information are included. Belden can trace each glass fiber all the way back to the drawing process.



Sample reel label

### Test Reports

Test reports accompany every reel shipped.

### Packaging Information

All standard reels now have our new easy access reel design. Reels 30 inches and smaller will feature the new double flange reel (A) and the larger reels will have protective channels (B) to speed on-site testing and preconnectorization.

All standard reels are protected with a reinforced composite wrap for safe shipment.



A. New double flange featured on all reels 30" and smaller.



B. Larger reels feature protective channels.



By: **INTERSTATEWIRE** INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

# BitLite® Interconnect Cable

## Tight Buffer — Riser- & Plenum-Rated

### Product Description

BelOptix® enhanced BitLite interconnect cordage features the Ritestrip® II tight buffer technology for easy cable preparation during termination. Belden's new interconnect cordage has been updated with 62.5 micron LCF™ (Laser Certified Fiber) to handle emerging Gigabit Ethernet light sources and expanded bandwidth requirements as well as conventional LED light sources.

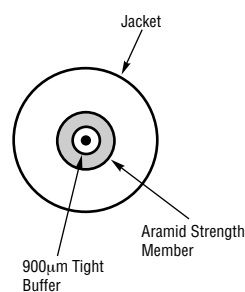
### Product Specifications

|                            |                                                      |
|----------------------------|------------------------------------------------------|
| <b>Fiber Counts</b>        | 1 and 2                                              |
| <b>Fiber Size</b>          | SM, 50µm, 62.5µm                                     |
| <b>Buffer Diameter</b>     | 900µm                                                |
| <b>Strength Member</b>     | Aramid Yarn                                          |
| <b>Jacket Material</b>     | PVC<br>Riser<br>Plenum<br>Flamarrest®                |
| <b>Flame Test</b>          | UL 1666 and NFPA 262                                 |
| <b>UL Listing NEC/CEC</b>  | OFNR FT4<br>Riser<br>Plenum<br>OFNP FT6              |
| <b>Minimum Bend Radius</b> | 2"<br>Installation<br>Long Term<br>1"                |
| <b>Temperature Range</b>   | -40 to +75°C<br>Storage<br>Operating<br>-20 to +75°C |

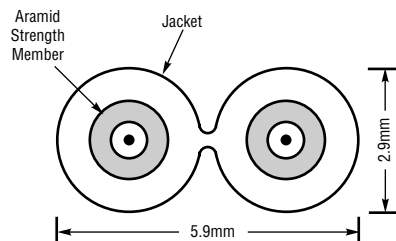
### Fiber Specifications

|                                                | Multimode   |         |
|------------------------------------------------|-------------|---------|
|                                                | 50µm        | 62.5µm  |
| <b>Max. Attenuation</b> (dB/km @850/1300nm)    | 3.5/1.5     | 3.5/1.0 |
| <b>Min. Bandwidth</b> (MHz-km @850/1300nm)     | 500/500     | 220/600 |
| <b>Max. Gigabit Ethernet Distance</b> (m)      | 600/600     | 300/550 |
| <b>Numerical Aperture</b>                      | 0.20        | 0.275   |
|                                                | Single-mode |         |
| <b>Core Diameter</b>                           | 8.3µm       |         |
| <b>Mode Field Diameter</b>                     | 9.2µm       |         |
| <b>Max. Attenuation</b> (dB/km @1310/1550nm)   | 0.5/0.5     |         |
| <b>Max. Dispersion</b> (Ps/nm-km @1285–1330nm) | 3.5         |         |
| <b>Max. Dispersion Slope</b> [Ps/(nm²-km)]     | 0.092       |         |

### Simplex



### Zip Cord



| Part No. | No. of Fibers | Outer Diameter |    | Weight     |       | Max. Load Installation |   | Max. Load Long-Term |   |
|----------|---------------|----------------|----|------------|-------|------------------------|---|---------------------|---|
|          |               | Inch           | mm | Lbs./1000' | kg/km | Lbs.                   | N | Lbs.                | N |

### Riser (NEC/CEC OFNR FT4)

#### Single-mode/125/900 Micron (Core/Clad/Coating)

|                                      |   |                  |                 |     |      |     |     |    |     |
|--------------------------------------|---|------------------|-----------------|-----|------|-----|-----|----|-----|
| <b>PTS1001</b><br><small>new</small> | 1 | .114             | 2.9             | 5.6 | 8.3  | 106 | 470 | 35 | 156 |
| <b>PTZ1002</b><br><small>new</small> | 2 | .114<br>X<br>.23 | 2.9<br>X<br>5.9 | 9.4 | 14.0 | 212 | 943 | 70 | 311 |

#### 50/125/900 Micron

|                                      |   |                  |                 |     |      |     |     |    |     |
|--------------------------------------|---|------------------|-----------------|-----|------|-----|-----|----|-----|
| <b>PTS5001</b><br><small>new</small> | 1 | .114             | 2.9             | 5.6 | 8.3  | 106 | 470 | 35 | 156 |
| <b>PTZ5002</b><br><small>new</small> | 2 | .114<br>X<br>.23 | 2.9<br>X<br>5.9 | 9.4 | 14.0 | 212 | 943 | 70 | 311 |

#### 62.5/125/900 Micron

|                |   |                  |                 |     |      |     |     |    |     |
|----------------|---|------------------|-----------------|-----|------|-----|-----|----|-----|
| <b>PTS6001</b> | 1 | .114             | 2.9             | 5.6 | 8.3  | 106 | 470 | 35 | 156 |
| <b>PTZ6002</b> | 2 | .114<br>X<br>.23 | 2.9<br>X<br>5.9 | 9.4 | 14.0 | 212 | 943 | 70 | 311 |

### Plenum (NEC/CEC OFNP FT6)

#### Single-mode/125/900 Micron (Core/Clad/Coating)

|                                      |   |                  |                 |      |      |     |     |    |     |
|--------------------------------------|---|------------------|-----------------|------|------|-----|-----|----|-----|
| <b>PTSP101</b><br><small>new</small> | 1 | .114             | 2.9             | 6.3  | 9.3  | 106 | 470 | 35 | 156 |
| <b>PTZP102</b><br><small>new</small> | 2 | .114<br>X<br>.23 | 2.9<br>X<br>5.9 | 11.5 | 17.1 | 212 | 943 | 70 | 311 |

#### 50/125/900 Micron

|                                      |   |                  |                 |      |      |     |     |    |     |
|--------------------------------------|---|------------------|-----------------|------|------|-----|-----|----|-----|
| <b>PTSP501</b><br><small>new</small> | 1 | .114             | 2.9             | 6.3  | 9.3  | 106 | 470 | 35 | 156 |
| <b>PTZP502</b><br><small>new</small> | 2 | .114<br>X<br>.23 | 2.9<br>X<br>5.9 | 11.5 | 17.1 | 212 | 943 | 70 | 311 |

#### 62.5/125/900 Micron

|                |   |                  |                 |      |      |     |     |    |     |
|----------------|---|------------------|-----------------|------|------|-----|-----|----|-----|
| <b>PTSP601</b> | 1 | .114             | 2.9             | 6.3  | 9.3  | 106 | 470 | 35 | 156 |
| <b>PTZP602</b> | 2 | .114<br>X<br>.23 | 2.9<br>X<br>5.9 | 11.5 | 17.1 | 212 | 943 | 70 | 311 |





## LANLite® Distribution Cable

Tight Buffer — Indoor Riser- & Plenum-Rated, Gigabit Rated

### Product Description

BelOptix® LANLite distribution backbone cables offer Ritestrip® II tight buffer technology for easier fiber stripping in cable preparation. The glass fiber performance has been updated to include LCF™ (Laser Certified Fiber) to handle tomorrow's Gigabit Ethernet light sources and expanded bandwidth requirements.

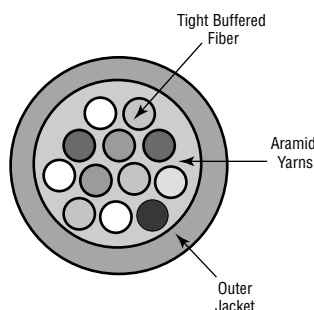
### Product Specifications

|                            |                      |
|----------------------------|----------------------|
| <b>Fiber Counts</b>        | 2 through 24         |
| <b>Fiber Size</b>          | SM, 50µm, 62.5µm     |
| <b>Buffer Diameter</b>     | 900µm                |
| <b>Strength Member</b>     | Aramid Yarn          |
| <b>Jacket Material</b>     |                      |
| Riser                      | PVC                  |
| Plenum                     | Flamarrest®          |
| <b>Flame Test</b>          | UL 1666 and NFPA 262 |
| <b>UL Listing NEC/CEC</b>  |                      |
| Riser                      | OFNR FT4             |
| Plenum                     | OFNP FT6             |
| <b>Minimum Bend Radius</b> |                      |
| Installation               | 20 x OD              |
| Long Term                  | 10 x OD              |
| <b>Temperature Range</b>   |                      |
| Storage                    | -40 to +70°C         |
| Operating                  | -20 to +70°C         |

### Fiber Specifications

|                                                | Multimode   |         |
|------------------------------------------------|-------------|---------|
|                                                | 50µm        | 62.5µm  |
| <b>Max. Attenuation</b> (dB/km @850/1300nm)    | 3.5/1.5     | 3.5/1.0 |
| <b>Min. Bandwidth</b> (MHz-km @850/1300nm)     | 500/500     | 220/600 |
| <b>Max. Gigabit Ethernet Distance</b> (m)      | 600/600     | 300/550 |
| <b>Numerical Aperture</b>                      | 0.20        | 0.275   |
|                                                | Single-mode |         |
| <b>Core Diameter</b>                           | 8.3µm       |         |
| <b>Mode Field Diameter</b>                     | 9.2µm       |         |
| <b>Max. Attenuation</b> (dB/km @1310/1550nm)   | 0.5/0.5     |         |
| <b>Max. Dispersion</b> (Ps/nm-km @1285–1330nm) | 3.5         |         |
| <b>Max. Dispersion Slope</b> [Ps/(nm²-km)]     | 0.092       |         |

### LANLite



| Part No. | No. of Fibers | Outer Diameter |    | Weight     |       | Installation Tensile |   | Long-Term Tensile |   |
|----------|---------------|----------------|----|------------|-------|----------------------|---|-------------------|---|
|          |               | Inch           | mm | Lbs./1000' | kg/km | Lbs.                 | N | Lbs.              | N |

### Riser (NEC/CEC OFNR FT4)

| Single-mode/125/900 Micron (Core/Clad/Coating) |    |      |      |     |       |     |      |     |      |
|------------------------------------------------|----|------|------|-----|-------|-----|------|-----|------|
| <b>PTD1002</b><br><small>new</small>           | 2  | .175 | 4.4  | 12  | 17.6  | 180 | 800  | 45  | 200  |
| <b>PTD1004</b>                                 | 4  | .207 | 5.3  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTD1006</b>                                 | 6  | .207 | 5.3  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTD1012</b>                                 | 12 | .260 | 6.6  | 27  | 40.2  | 300 | 1333 | 100 | 444  |
| <b>PTD1024</b>                                 | 24 | .524 | 13.3 | 120 | 179.0 | 635 | 2820 | 225 | 1000 |
| <b>PTD1036</b>                                 | 36 | .614 | 15.6 | 148 | 220.0 | 800 | 3555 | 240 | 1066 |
| 50/125/900 Micron                              |    |      |      |     |       |     |      |     |      |
| <b>PTD5002</b>                                 | 2  | .175 | 4.4  | 12  | 17.6  | 180 | 800  | 45  | 200  |
| <b>PTD5004</b>                                 | 4  | .207 | 5.3  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTD5006</b><br><small>new</small>           | 6  | .207 | 5.3  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTD5012</b><br><small>new</small>           | 12 | .260 | 6.6  | 27  | 40.2  | 300 | 1333 | 100 | 444  |
| <b>PTD5024</b><br><small>new</small>           | 24 | .524 | 13.3 | 120 | 179.0 | 635 | 2820 | 225 | 1000 |
| <b>PTD5036</b><br><small>new</small>           | 36 | .614 | 15.6 | 148 | 220.0 | 800 | 3555 | 240 | 1066 |
| 62.5/125/900 Micron                            |    |      |      |     |       |     |      |     |      |
| <b>PTD6002</b><br><small>new</small>           | 2  | .175 | 4.4  | 12  | 17.6  | 180 | 800  | 45  | 200  |
| <b>PTD6004</b>                                 | 4  | .207 | 5.3  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTD6006</b>                                 | 6  | .207 | 5.3  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTD6012</b>                                 | 12 | .260 | 6.6  | 27  | 40.2  | 300 | 1333 | 100 | 444  |
| <b>PTD6024</b>                                 | 24 | .524 | 13.3 | 120 | 179.0 | 635 | 2820 | 225 | 1000 |
| <b>PTD6036</b>                                 | 36 | .614 | 15.6 | 148 | 220.0 | 800 | 3555 | 240 | 1066 |

### Plenum (NEC/CEC OFNP FT6)

| Single-mode/125/900 Micron (Core/Clad/Coating) |    |      |      |     |       |     |      |     |      |
|------------------------------------------------|----|------|------|-----|-------|-----|------|-----|------|
| <b>PTDP102</b>                                 | 2  | .155 | 3.9  | 10  | 15.0  | 180 | 800  | 45  | 200  |
| <b>PTDP104</b>                                 | 4  | .190 | 4.8  | 32  | 48.0  | 230 | 1020 | 69  | 305  |
| <b>PTDP106</b>                                 | 6  | .190 | 4.8  | 32  | 48.0  | 230 | 1020 | 69  | 305  |
| <b>PTDP112</b>                                 | 12 | .250 | 6.4  | 38  | 57.0  | 300 | 1333 | 100 | 444  |
| <b>PTDP124</b>                                 | 24 | .508 | 12.9 | 104 | 155.0 | 635 | 2820 | 225 | 1000 |
| <b>PTDP136</b><br><small>new</small>           | 36 | .606 | 15.4 | 171 | 225.0 | 800 | 3555 | 240 | 1066 |
| 50/125/900 Micron                              |    |      |      |     |       |     |      |     |      |
| <b>PTDP502</b><br><small>new</small>           | 2  | .155 | 3.9  | 10  | 15.0  | 180 | 800  | 45  | 200  |
| <b>PTDP504</b>                                 | 4  | .190 | 4.8  | 32  | 48.0  | 230 | 1020 | 69  | 305  |
| <b>PTDP506</b><br><small>new</small>           | 6  | .190 | 4.8  | 32  | 48.0  | 230 | 1020 | 69  | 305  |
| <b>PTDP512</b><br><small>new</small>           | 12 | .250 | 6.4  | 38  | 57.0  | 300 | 1333 | 100 | 444  |
| <b>PTDP524</b><br><small>new</small>           | 24 | .508 | 12.9 | 134 | 200.0 | 635 | 2820 | 225 | 1000 |
| <b>PTDP536</b><br><small>new</small>           | 36 | .606 | 15.4 | 171 | 225.0 | 800 | 3555 | 240 | 1066 |
| 62.5/125/900 Micron                            |    |      |      |     |       |     |      |     |      |
| <b>PTDP602</b>                                 | 2  | .155 | 3.9  | 10  | 15.0  | 180 | 800  | 45  | 200  |
| <b>PTDP604</b>                                 | 4  | .190 | 4.8  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTDP606</b>                                 | 6  | .190 | 4.8  | 16  | 23.8  | 230 | 1020 | 69  | 305  |
| <b>PTDP612</b>                                 | 12 | .250 | 6.4  | 26  | 38.7  | 300 | 1333 | 100 | 444  |
| <b>PTDP624</b>                                 | 24 | .508 | 12.9 | 134 | 200.0 | 635 | 2820 | 225 | 1000 |
| <b>PTDP636</b>                                 | 36 | .606 | 15.4 | 171 | 225.0 | 800 | 3555 | 240 | 1066 |



BelOptix®  
By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

## Breakout Style Cable

Tight Buffer — Indoor/Outdoor Riser- & Plenum-Rated

### Product Description

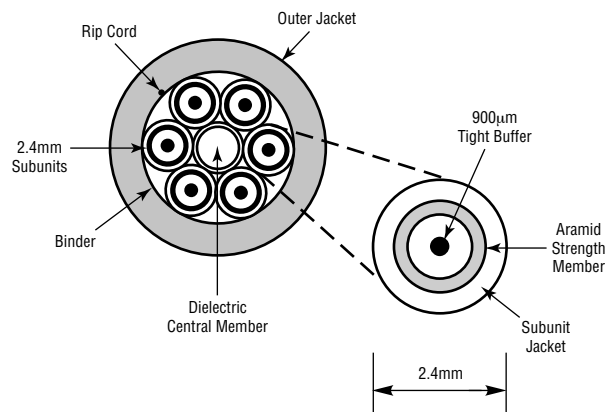
BelOptix® reinforced breakout cables are the preferred selection for direct termination methods. Each EIA colored fiber subunit is protected by a layer of aramid yarn and encased in a PVC jacket. These individual subunits are cabled and then jacketed with a flame resistant PVC compound. Each fiber in the subunit uses the Ritestrip® II tight buffer technology for easier fiber stripping in cable preparation. These cables have been updated to include the LCF™ (Laser Certified Fiber) to handle tomorrow's Gigabit Ethernet light sources and expanded bandwidth requirements.

### Product Specifications

|                           |                      |
|---------------------------|----------------------|
| <b>Fiber Counts</b>       | 2 through 12         |
| <b>Fiber Size</b>         | 50µm, 62.5µm         |
| <b>Buffer Diameter</b>    | 900µm                |
| <b>Strength Member</b>    | Aramid Yarn          |
| <b>Jacket Material</b>    |                      |
| Riser                     | PVC                  |
| Plenum                    | Flamarrest®          |
| <b>Flame Test</b>         | UL 1666 and NFPA 262 |
| <b>UL Listing NEC/CEC</b> |                      |
| Riser                     | OFNR FT4             |
| Plenum                    | OFNP FT6             |
| <b>Temperature Range</b>  |                      |
| Storage                   | -40 to +70°C         |
| Operating                 | -20 to +70°C         |

### Fiber Specifications

|                                             | Multimode |         |
|---------------------------------------------|-----------|---------|
|                                             | 50µm      | 62.5µm  |
| <b>Max. Attenuation (dB/km @850/1300nm)</b> | 3.5/1.5   | 3.5/1.0 |
| <b>Min. Bandwidth (MHz-km @850/1300nm)</b>  | 500/500   | 220/600 |
| <b>Max. Gigabit Ethernet Distance (m)</b>   | 600/600   | 300/550 |
| <b>Numerical Aperture</b>                   | 0.20      | 0.275   |



| Part No. | No. of Fibers | Outer Diameter |    | Weight     |       | Installation Tensile |   | Long-Term Tensile |   |
|----------|---------------|----------------|----|------------|-------|----------------------|---|-------------------|---|
|          |               | Inch           | mm | Lbs./1000' | kg/km | Lbs.                 | N | Lbs.              | N |

#### Riser (NEC/CEC OFNR FT4)

| 50/125/900 Micron (Core/Clad/Coating) |    |      |      |    |       |     |      |     |      |
|---------------------------------------|----|------|------|----|-------|-----|------|-----|------|
| <b>MTB5002</b><br><small>new</small>  | 2  | .257 | 6.5  | 24 | 35.7  | 210 | 930  | 65  | 288  |
| <b>MTB5004</b><br><small>new</small>  | 4  | .299 | 7.6  | 34 | 50.7  | 215 | 950  | 75  | 333  |
| <b>MTB5006</b><br><small>new</small>  | 6  | .373 | 9.5  | 63 | 93.9  | 380 | 1685 | 145 | 644  |
| <b>MTB5012</b><br><small>new</small>  | 12 | .476 | 12.1 | 76 | 113.2 | 640 | 2840 | 255 | 1133 |

#### 62.5/125/900 Micron

|                |    |      |      |    |       |     |      |     |      |
|----------------|----|------|------|----|-------|-----|------|-----|------|
| <b>MTB6002</b> | 2  | .257 | 6.5  | 24 | 35.7  | 210 | 930  | 65  | 288  |
| <b>MTB6004</b> | 4  | .299 | 7.6  | 34 | 50.7  | 215 | 950  | 75  | 333  |
| <b>MTB6006</b> | 6  | .373 | 9.5  | 63 | 93.9  | 380 | 1685 | 145 | 644  |
| <b>MTB6012</b> | 12 | .476 | 12.1 | 76 | 113.2 | 640 | 2840 | 255 | 1133 |

#### Plenum (NEC/CEC OFNP FT6)

| 50/125/900 Micron (Core/Clad/Coating) |    |      |      |    |       |     |      |     |      |
|---------------------------------------|----|------|------|----|-------|-----|------|-----|------|
| <b>MTBP502</b><br><small>new</small>  | 2  | .250 | 6.4  | 24 | 35.8  | 210 | 930  | 65  | 288  |
| <b>MTBP504</b><br><small>new</small>  | 4  | .293 | 7.4  | 36 | 53.6  | 215 | 950  | 75  | 333  |
| <b>MTBP506</b><br><small>new</small>  | 6  | .356 | 9.0  | 56 | 83.4  | 380 | 1685 | 145 | 644  |
| <b>MTBP512</b><br><small>new</small>  | 12 | .461 | 11.7 | 84 | 125.2 | 640 | 2840 | 256 | 1133 |

| 62.5/125/900 Micron |    |      |      |    |       |     |      |     |      |
|---------------------|----|------|------|----|-------|-----|------|-----|------|
| <b>MTBP602</b>      | 2  | .250 | 6.4  | 24 | 35.8  | 210 | 930  | 65  | 288  |
| <b>MTBP604</b>      | 4  | .293 | 7.4  | 36 | 53.6  | 215 | 950  | 75  | 333  |
| <b>MTBP606</b>      | 6  | .356 | 9.0  | 56 | 83.4  | 380 | 1685 | 145 | 644  |
| <b>MTBP612</b>      | 12 | .461 | 11.7 | 84 | 125.2 | 640 | 2840 | 256 | 1133 |

## Single-Jacket, All Dielectric Cable

### Product Description

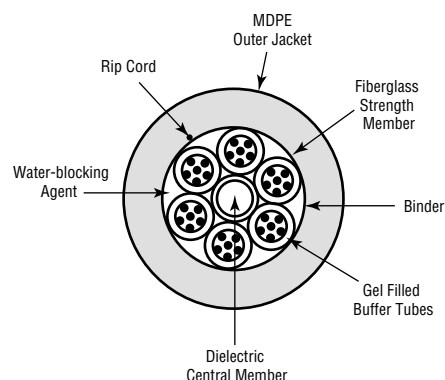
These all-dielectric, loose tube cables are designed for aerial, duct and conduit applications. They feature a durable polyethylene outer jacket. These cables feature Belden's water-blocking agent for a craft-friendly, no mess, hassle-free cable preparation experience. Additionally, these cables utilize LCF™ (Laser Certified Fiber) multimode glass fiber for new expanded bandwidth applications. Higher fiber counts are available. Please contact Belden Technical Support at 1-800-BELDEN-1 for additional information.

### Product Specifications

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Fiber Counts</b>         | 2 through 36                                  |
| <b>Fiber Size</b>           | 50 $\mu$ m, 62.5 $\mu$ m                      |
| <b>Buffer Tube Diameter</b> | 2.5mm                                         |
| <b>Strength Members</b>     | Dielectric Central Member/<br>Fiberglass Yarn |
| <b>Jacket Material</b>      | Medium-density Polyethylene (MDPE)            |
| <b>Temperature Range</b>    |                                               |
| Storage                     | -40 to +80°C                                  |
| Operating                   | -40 to +80°C                                  |

### Fiber Specifications

|                                             | Multimode  |              |
|---------------------------------------------|------------|--------------|
|                                             | 50 $\mu$ m | 62.5 $\mu$ m |
| <b>Max. Attenuation</b> (dB/km @850/1300nm) | 3.5/1.0    | 3.5/1.0      |
| <b>Min. Bandwidth</b> (MHz-km @850/1300nm)  | 500/500    | 220/600      |
| <b>Max. Gigabit Ethernet Distance</b> (m)   | 600/600    | 300/550      |
| <b>Numerical Aperture</b>                   | 0.20       | 0.275        |



| Part No. | No. of Fibers | Outer Diameter |    | Weight     |       | Installation Tensile |   | Long-Term Tensile |   |
|----------|---------------|----------------|----|------------|-------|----------------------|---|-------------------|---|
|          |               | Inch           | mm | Lbs./1000' | kg/km | Lbs.                 | N | Lbs.              | N |

### All Dielectric

#### 50/125/245 Micron (Core/Clad/Coating)

|                                      |    |      |      |    |    |     |      |     |     |
|--------------------------------------|----|------|------|----|----|-----|------|-----|-----|
| <b>MLS5002</b><br><small>new</small> | 2  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS5004</b><br><small>new</small> | 4  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS5006</b><br><small>new</small> | 6  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS5008</b><br><small>new</small> | 8  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS5012</b><br><small>new</small> | 12 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS5018</b><br><small>new</small> | 18 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS5024</b><br><small>new</small> | 24 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS5036</b><br><small>new</small> | 36 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |

#### 62.5/125/245 Micron

|                                      |    |      |      |    |    |     |      |     |     |
|--------------------------------------|----|------|------|----|----|-----|------|-----|-----|
| <b>MLS6002</b><br><small>new</small> | 2  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS6004</b><br><small>new</small> | 4  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS6006</b><br><small>new</small> | 6  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS6008</b><br><small>new</small> | 8  | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS6012</b><br><small>new</small> | 12 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS6018</b><br><small>new</small> | 18 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS6024</b><br><small>new</small> | 24 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |
| <b>MLS6036</b><br><small>new</small> | 36 | .417 | 10.6 | 59 | 88 | 600 | 2666 | 180 | 800 |



# Heavy-Duty, Double-Jacket Cable

Loose Tube — Outdoor

## Product Description

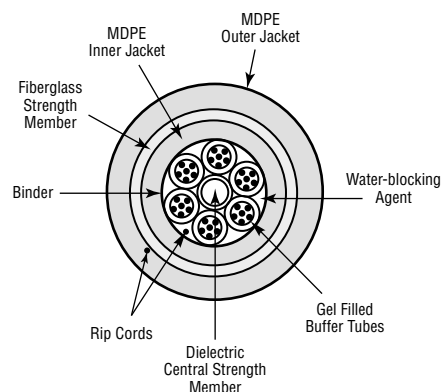
The heavy-duty loose tube cables are designed for direct burial, duct, outside tray and aerial applications. The heavy-duty series utilizes two weather-resistant polyethylene jackets. The extra jacket provides additional crush and impact resistance. These cables have been updated with a water-blocking agent for easier installation and LCF™ (Laser Certified Fiber) multimode glass fiber for new expanded bandwidth applications. Higher fiber counts are available. Please contact Belden Technical Support at 1-800-BELDEN-1 for additional information.

## Product Specifications

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Fiber Counts</b>         | 2 through 36                                  |
| <b>Fiber Size</b>           | 50 $\mu$ m, 62.5 $\mu$ m                      |
| <b>Buffer Tube Diameter</b> | 2.5mm                                         |
| <b>Strength Members</b>     | Dielectric Central Member/<br>Fiberglass Yarn |
| <b>Jacket Material</b>      | Medium-density Polyethylene (MDPE)            |
| <b>Temperature Range</b>    |                                               |
| Storage                     | -40 to +80°C                                  |
| Operating                   | -40 to +80°C                                  |

## Fiber Specifications

|                                             | Multimode  |              |
|---------------------------------------------|------------|--------------|
|                                             | 50 $\mu$ m | 62.5 $\mu$ m |
| <b>Max. Attenuation</b> (dB/km @850/1300nm) | 3.5/1.0    | 3.5/1.0      |
| <b>Min. Bandwidth</b> (MHz-km @850/1300nm)  | 500/500    | 220/600      |
| <b>Max. Gigabit Ethernet Distance</b> (m)   | 600/600    | 300/550      |
| <b>Numerical Aperture</b>                   | 0.20       | 0.275        |



| Part No. | No. of Fibers | Outer Diameter |    | Weight     |       | Installation Tensile |   | Long-Term Tensile |   |
|----------|---------------|----------------|----|------------|-------|----------------------|---|-------------------|---|
|          |               | Inch           | mm | Lbs./1000' | kg/km | Lbs.                 | N | Lbs.              | N |

## Outdoor

| 50/125/245 Micron (Core/Clad/Coating) |    |      |      |    |     |     |      |     |     |
|---------------------------------------|----|------|------|----|-----|-----|------|-----|-----|
| <b>MLD5002</b><br><small>new</small>  | 2  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD5004</b><br><small>new</small>  | 4  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD5006</b><br><small>new</small>  | 6  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD5008</b><br><small>new</small>  | 8  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD5012</b><br><small>new</small>  | 12 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD5018</b><br><small>new</small>  | 18 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD5024</b><br><small>new</small>  | 24 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD5036</b><br><small>new</small>  | 36 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| 62.5/125/245 Micron                   |    |      |      |    |     |     |      |     |     |
| <b>MLD6002</b>                        | 2  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD6004</b>                        | 4  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD6006</b>                        | 6  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD6008</b>                        | 8  | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD6012</b>                        | 12 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD6018</b>                        | 18 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD6024</b>                        | 24 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |
| <b>MLD6036</b>                        | 36 | .522 | 13.3 | 80 | 119 | 600 | 2666 | 180 | 800 |

# Corrugated Steel Armor Cable

## Loose Tube — Outdoor

### Product Description

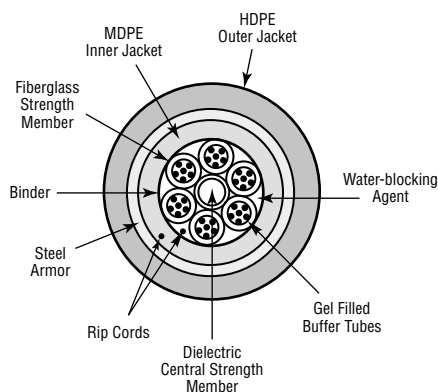
The heavy-duty armored loose tube cables are designed for direct burial, duct and outside tray applications. The heavy-duty series utilizes a corrugated steel tape armor barrier combined with two weather-resistant polyethylene jackets to give the maximum protection of your optical fiber cable. These cables have been updated with a water-blocking agent for easier installation and LCF™ (Laser Certified Fiber) multimode glass fiber for new expanded bandwidth applications. Higher fiber counts are available. Please contact Belden Technical Support at 1-800-BELDEN-1 for additional information.

### Product Specifications

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| <b>Fiber Counts</b>         | 2 through 36                                                            |
| <b>Fiber Size</b>           | 50µm, 62.5µm                                                            |
| <b>Buffer Tube Diameter</b> | 2.5mm                                                                   |
| <b>Strength Members</b>     | Dielectric Central Member/<br>Fiberglass Yarn                           |
| <b>Armor Material</b>       | Corrugated Steel                                                        |
| <b>Jacket Material</b>      | Medium-density Polyethylene (MDPE)/<br>High-density Polyethylene (HDPE) |
| <b>Temperature Range</b>    |                                                                         |
| Storage                     | -40 to +80°C                                                            |
| Operating                   | -40 to +80°C                                                            |

### Fiber Specifications

|                                             | Multimode |         |
|---------------------------------------------|-----------|---------|
|                                             | 50µm      | 62.5µm  |
| <b>Max. Attenuation</b> (dB/km @850/1300nm) | 3.5/1.0   | 3.5/1.0 |
| <b>Min. Bandwidth</b> (MHz-km @850/1300nm)  | 500/500   | 220/600 |
| <b>Max. Gigabit Ethernet Distance</b> (m)   | 600/600   | 300/550 |
| <b>Numerical Aperture</b>                   | 0.20      | 0.275   |



| Part No. | No. of Fibers | Outer Diameter |    | Weight     |       | Installation Tensile |   | Long-Term Tensile |   |
|----------|---------------|----------------|----|------------|-------|----------------------|---|-------------------|---|
|          |               | Inch           | mm | Lbs./1000' | kg/km | Lbs.                 | N | Lbs.              | N |

### Outdoor

| 50/125/245 Micron (Core/Clad/Coating) |    |      |      |     |     |     |      |     |     |
|---------------------------------------|----|------|------|-----|-----|-----|------|-----|-----|
| <b>MLC5002</b><br><small>new</small>  | 2  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC5004</b><br><small>new</small>  | 4  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC5006</b><br><small>new</small>  | 6  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC5008</b><br><small>new</small>  | 8  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC5012</b><br><small>new</small>  | 12 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC5018</b><br><small>new</small>  | 18 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC5024</b><br><small>new</small>  | 24 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC5036</b><br><small>new</small>  | 36 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| 62.5/125/245 Micron                   |    |      |      |     |     |     |      |     |     |
| <b>MLC6002</b>                        | 2  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC6004</b>                        | 4  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC6006</b>                        | 6  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC6008</b>                        | 8  | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC6012</b>                        | 12 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC6018</b>                        | 18 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC6024</b>                        | 24 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |
| <b>MLC6036</b>                        | 36 | .571 | 14.5 | 125 | 186 | 600 | 2666 | 180 | 800 |



# Steel Messengered Cable

## Loose Tube — Aerial

### Product Description

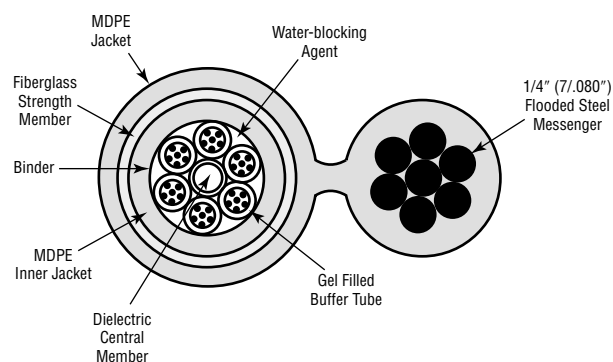
The messengered style outdoor loose tube cables are designed for aerial application between poles, buildings or other structures. The cable is constructed in a figure 8 profile with a 1/4" EHS galvanized steel support wire and covered with a weather-resistant polyethylene jacket overall. These cables have been updated with a water-blocking agent for easier installation and LCF™ (Laser Certified Fiber) multimode glass fiber for new expanded bandwidth applications. Higher fiber counts and 50 micron constructions are available. Please contact Belden Technical Support at 1-800-BELDEN-1 for additional information.

### Product Specifications

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Fiber Counts</b>         | 2 through 36                                  |
| <b>Fiber Size</b>           | 62.5µm                                        |
| <b>Buffer Tube Diameter</b> | 2.5mm                                         |
| <b>Messenger</b>            | 1/4" EHS Steel                                |
| <b>Strength Members</b>     | Dielectric Central Member/<br>Fiberglass Yarn |
| <b>Jacket Material</b>      | Medium-density Polyethylene (MDPE)            |
| <b>Temperature Range</b>    |                                               |
| Storage                     | -40 to +80°C                                  |
| Operating                   | -40 to +80°C                                  |

### Fiber Specifications

|                                             |         |
|---------------------------------------------|---------|
|                                             | 62.5µm  |
| <b>Max. Attenuation</b> (dB/km @850/1300nm) | 3.5/1.0 |
| <b>Min. Bandwidth</b> (MHz-km @850/1300nm)  | 220/600 |
| <b>Max. Gigabit Ethernet Distance</b> (m)   | 300/550 |
| <b>Numerical Aperture</b>                   | .275    |



| Part No. | No. of Fibers | Outer Diameter |            | Weight     |       | Max. Messenger Load |   |
|----------|---------------|----------------|------------|------------|-------|---------------------|---|
|          |               | Minor Inch     | Major Inch | Lbs./1000' | kg/km | Lbs.                | N |

### Aerial

| 62.5/125/245 Micron (Core/Clad/Coating) |    |      |      |     |     |      |        |
|-----------------------------------------|----|------|------|-----|-----|------|--------|
| MLM6004                                 | 4  | .530 | 1.00 | 246 | 366 | 3990 | 17,750 |
| MLM6006                                 | 6  | .530 | 1.00 | 246 | 366 | 3990 | 17,750 |
| MLM6008                                 | 8  | .530 | 1.00 | 246 | 366 | 3990 | 17,750 |
| MLM6012                                 | 12 | .530 | 1.00 | 246 | 366 | 3990 | 17,750 |
| MLM6018                                 | 18 | .530 | 1.00 | 246 | 366 | 3990 | 17,750 |
| MLM6024                                 | 24 | .530 | 1.00 | 246 | 366 | 3990 | 17,750 |
| MLM6036                                 | 36 | .530 | 1.00 | 246 | 366 | 3990 | 17,750 |

# TrayOptic® Heavy-Duty, All Dielectric Cable

Loose Tube — Indoor/Outdoor Riser & Tray

## Product Description

The TrayOptic series cables are designed for indoor/outdoor industrial applications. All TrayOptic cables have been upgraded with a water-blocking agent. The TrayOptic series carry the IEEE 383 flame approval. All TrayOptic series products utilize the LCF™ (Laser Certified Fiber) to handle tomorrow's Gigabit Ethernet light sources and expanded bandwidth requirements. TrayOptic cables are also available with 50 micron or single-mode fiber upon request.

## Product Specifications

|                                        |                                                          |
|----------------------------------------|----------------------------------------------------------|
| <b>Fiber Counts*</b>                   | 2 through 24                                             |
| <b>Fiber Size</b>                      | 62.5µm                                                   |
| <b>Buffer Sizes</b>                    |                                                          |
| ≤ 6 Fibers                             | 2.0mm                                                    |
| > 6 Fibers                             | 2.5mm                                                    |
| <b>Jacket Materials</b>                | PVC or CPE                                               |
| <b>Flame Test</b>                      | Passes IEEE 383 and<br>UL 1581 Vertical Tray Flame Tests |
| <b>UL Listing NEC/CEC</b>              |                                                          |
| 2 to 12 Fibers                         | OFNR FT4                                                 |
| 18 to 24 Fibers                        | OFN FT1                                                  |
| <b>Strength Members</b>                | Dielectric Central Member/<br>Fiberglass Yarn            |
| <b>Temperature Range</b>               | -40 to +75°C                                             |
| <b>Crush Resistance</b>                |                                                          |
| 2 to 6 Fibers                          | 750 lbs./in. min.                                        |
| 8 to 24 Fibers                         | 500 lbs./in. min.                                        |
| <b>Impact Resistance</b>               | 3.3 ft.-lbs./25 impacts min.                             |
| <b>Flexing</b>                         | 25 cycles, 12 lbs., 20 x OD radius min.                  |
| <b>Twist/Bend</b>                      | 25 cycles, 12 lbs., 20 x OD radius min.                  |
| <b>Minimum Bend Radius</b>             |                                                          |
| Installation                           | 20 x OD                                                  |
| Long Term                              | 10 x OD                                                  |
| <b>Maximum Recommended Load (Lbs.)</b> |                                                          |
| Installation                           | 600                                                      |
| Long Term                              | 180                                                      |

\*1- through 6-fiber cables are single fiber per tube.

## Fiber Specifications

|                                             |         |
|---------------------------------------------|---------|
|                                             | 62.5µm  |
| <b>Max. Attenuation (dB/km @850/1300nm)</b> | 3.5/1.0 |
| <b>Min. Bandwidth (MHz-km @850/1300nm)</b>  | 220/600 |
| <b>Numerical Aperture</b>                   | 0.275   |

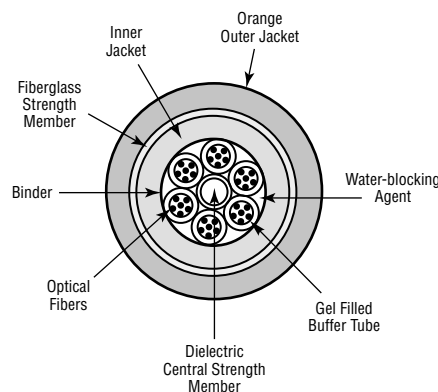
| Part No. | Jacket Material | No. of Fibers | Outer Diameter |    | Weight     |       |
|----------|-----------------|---------------|----------------|----|------------|-------|
|          |                 |               | Inch           | mm | Lbs./1000' | kg/km |

### Riser (NEC/CEC OFNR FT4)

| 62.5/125/245 Micron (Core/Clad/Coating) |     |    |      |       |     |     |
|-----------------------------------------|-----|----|------|-------|-----|-----|
| <b>I100255</b>                          | PVC | 2  | .469 | 11.91 | 93  | 138 |
| <b>I100266</b>                          | CPE | 2  | .469 | 11.91 | 89  | 132 |
| <b>I100455</b>                          | PVC | 4  | .469 | 11.91 | 91  | 135 |
| <b>I100466</b>                          | CPE | 4  | .469 | 11.91 | 80  | 119 |
| <b>I100655</b>                          | PVC | 6  | .469 | 11.91 | 89  | 120 |
| <b>I100666</b>                          | CPE | 6  | .469 | 11.91 | 85  | 126 |
| <b>I400855</b>                          | PVC | 8  | .572 | 14.53 | 140 | 190 |
| <b>I400866</b>                          | CPE | 8  | .572 | 14.53 | 132 | 196 |
| <b>I601055</b>                          | PVC | 10 | .572 | 14.53 | 135 | 183 |
| <b>I601255</b>                          | PVC | 12 | .572 | 14.53 | 135 | 183 |
| <b>I601266</b>                          | CPE | 12 | .572 | 14.53 | 139 | 207 |

### Tray (NEC/CEC OFN FT1)

| 62.5/125/245 Micron (Core/Clad/Coating) |     |    |      |       |     |     |
|-----------------------------------------|-----|----|------|-------|-----|-----|
| <b>I601855</b>                          | PVC | 18 | .572 | 14.53 | 133 | 180 |
| <b>I601866</b>                          | CPE | 18 | .572 | 14.53 | 136 | 202 |
| <b>I602455</b>                          | PVC | 24 | .572 | 14.53 | 133 | 180 |
| <b>I602466</b>                          | CPE | 24 | .572 | 14.53 | 137 | 204 |



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## Public Network Fiber Optic Cable

Loose Tube — Single Mode, Dual Window Fiber  
Armored, Double Jacket

### Product Description

The BelOptix® Public Network Fiber Series addresses the converging technologies of CATV, Broadband and Telephony providing cable solutions for longhaul, local exchange and MAN/WAN applications.

The BelOptix Public Network Fiber Cables come in a variety of configurations all meeting RUS/PE-90 performance standards.

### Product Specifications

|                                    |                                                                         |
|------------------------------------|-------------------------------------------------------------------------|
| <b>Fiber Counts</b>                | 6 through 144                                                           |
| <b>Fiber Size</b>                  | Single-mode                                                             |
| <b>Cladding Diameter</b>           | 125 $\pm$ 1 $\mu$ m                                                     |
| <b>Coating Diameter</b>            | 245 $\pm$ 10 $\mu$ m, dual layer                                        |
| <b>Fiber Coating</b>               | UV Acrylate                                                             |
| <b>Jacket Materials</b>            | Medium-density Polyethylene (MDPE)/<br>High-density Polyethylene (HDPE) |
| <b>Strength Member</b>             | Fiberglass and Central FGE Rod                                          |
| <b>Operating Temperature Range</b> | -40 to +75°C                                                            |
| <b>Maximum Recommended Load</b>    |                                                                         |
| Installation                       | 600 lbs. (2700 N)                                                       |
| Long Term                          | 135 lbs. (600 N)                                                        |

### Fiber Specifications

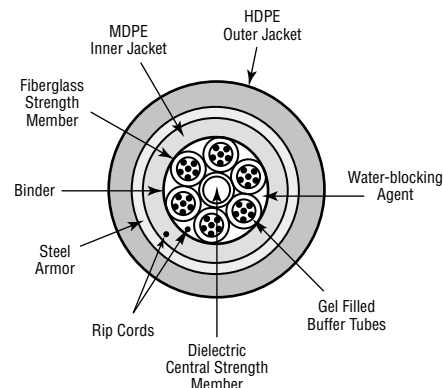
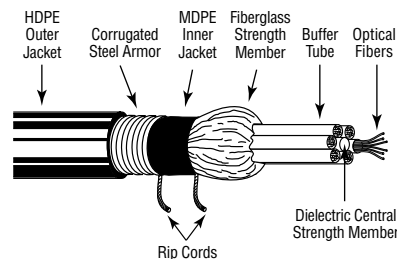
|                                                       |                        |
|-------------------------------------------------------|------------------------|
| <b>Mode Field Diameter (@1310nm)</b>                  | 9.2 $\pm$ 0.4 $\mu$ m  |
| <b>Mode Field Diameter (@1550nm)</b>                  | 10.5 $\pm$ 1.0 $\mu$ m |
| <b>Cable Cut-off Wavelength</b>                       | < 1260nm               |
| <b>Zero Dispersion Wavelength</b>                     | 1300–1322nm            |
| <b>Max. Dispersion Slope [Ps/(nm<sup>2</sup>-km)]</b> | 0.092                  |
| <b>Max. Dispersion (Ps/nm-km @1285–1330)</b>          | < 3.5                  |
| <b>Polarization Mode Dispersion (Ps/v/km @1310nm)</b> | < 0.5                  |
| <b>Effective Refractive Index (@1310nm)</b>           | 1.466                  |
| <b>Effective Refractive Index (@1550nm)</b>           | 1.467                  |
| <b>Core Diameter</b>                                  | 8.3 $\mu$ m            |
| <b>Core/Cladding Concentricity Error</b>              | < 0.8 $\mu$ m          |
| <b>Cladding Non-circularity</b>                       | < 1.0 $\mu$ m          |
| <b>Proof Test</b>                                     | 100 kpsi               |
| <b>Strip Force (Newtons)</b>                          | 1.3 < F < 8.9          |
| <b>Max. Attenuation (dB/km @1310/1550nm)</b>          | .35/.25                |
| <b>Minimum Bend Radius</b>                            |                        |
| Installation                                          | 20 x dia.              |
| Long Term                                             | 10 x dia.              |

| Part No. | Jacket Material | No. of Fibers | Outer Diameter |    | Nominal Cable Weight |       |
|----------|-----------------|---------------|----------------|----|----------------------|-------|
|          |                 |               | Inch           | mm | Lbs./1000'           | kg/km |

### Armored — Double Jacket (RUS/PE-90 Listed)

#### Single-mode/125/245 Micron (Core/Clad/Coating)

|                              |           |     |      |      |     |     |
|------------------------------|-----------|-----|------|------|-----|-----|
| <b>A6006FM</b><br><b>new</b> | HDPE/MDPE | 6   | .571 | 14.5 | 125 | 186 |
| <b>A6012FM</b><br><b>new</b> | HDPE/MDPE | 12  | .571 | 14.5 | 125 | 186 |
| <b>A6024FM</b><br><b>new</b> | HDPE/MDPE | 24  | .571 | 14.5 | 125 | 186 |
| <b>A6036FM</b><br><b>new</b> | HDPE/MDPE | 36  | .571 | 14.5 | 125 | 186 |
| <b>AT048FM</b><br><b>new</b> | HDPE/MDPE | 48  | .581 | 14.8 | 136 | 202 |
| <b>AT060FM</b><br><b>new</b> | HDPE/MDPE | 60  | .581 | 14.8 | 136 | 202 |
| <b>AT072FM</b><br><b>new</b> | HDPE/MDPE | 72  | .640 | 16.3 | 156 | 232 |
| <b>AT096FM</b><br><b>new</b> | HDPE/MDPE | 96  | .713 | 18.1 | 180 | 268 |
| <b>AT120FM</b><br><b>new</b> | HDPE/MDPE | 120 | .785 | 19.9 | 214 | 318 |
| <b>AT144FM</b><br><b>new</b> | HDPE/MDPE | 144 | .855 | 21.7 | 242 | 360 |





## Public Network Fiber Optic Cable

Loose Tube — Single Mode, Dual Window Fiber

All Dielectric

### Product Description

The BelOptix® Public Network Fiber Series addresses the converging technologies of CATV, Broadband and Telephony providing cable solutions for longhaul, local exchange and MAN/WAN applications.

The BelOptix Public Network Fiber Cables come in a variety of configurations all meeting RUS/PE-90 performance standards.

### Product Specifications

|                                    |                                    |
|------------------------------------|------------------------------------|
| <b>Fiber Counts</b>                | 6 through 144                      |
| <b>Fiber Size</b>                  | Single-mode                        |
| <b>Cladding Diameter</b>           | 125 $\pm$ 1 $\mu$ m                |
| <b>Coating Diameter</b>            | 245 $\pm$ 10 $\mu$ m, dual layer   |
| <b>Fiber Coating</b>               | UV Acrylate                        |
| <b>Jacket Materials</b>            | Medium-density Polyethylene (MDPE) |
| <b>Strength Member</b>             | Fiberglass and Central FGE Rod     |
| <b>Operating Temperature Range</b> | -40 to +75°C                       |
| <b>Maximum Recommended Load</b>    |                                    |
| Installation                       | 600 lbs. (2700 N)                  |
| Long Term                          | 135 lbs. (600 N)                   |

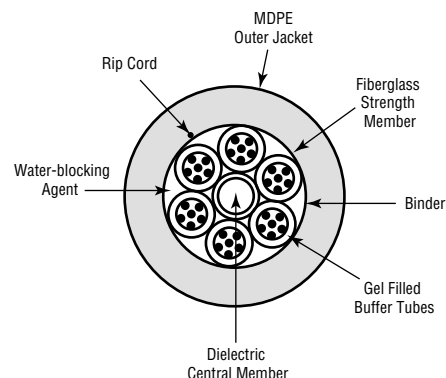
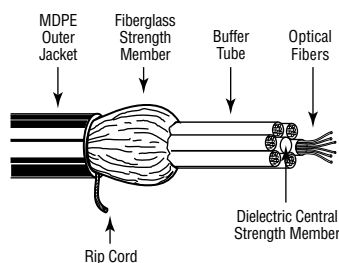
### Fiber Specifications

|                                                       |                        |
|-------------------------------------------------------|------------------------|
| <b>Mode Field Diameter (@1310nm)</b>                  | 9.2 $\pm$ 0.4 $\mu$ m  |
| <b>Mode Field Diameter (@1550nm)</b>                  | 10.5 $\pm$ 1.0 $\mu$ m |
| <b>Cable Cut-off Wavelength</b>                       | < 1260nm               |
| <b>Zero Dispersion Wavelength</b>                     | 1300–1322nm            |
| <b>Max. Dispersion Slope [Ps/(nm<sup>2</sup>-km)]</b> | 0.092                  |
| <b>Max. Dispersion (Ps/nm-km@1285–1330)</b>           | < 3.5                  |
| <b>Polarization Mode Dispersion (Ps/km @1310nm)</b>   | < 0.5                  |
| <b>Effective Refractive Index (@1310nm)</b>           | 1.470                  |
| <b>Effective Refractive Index (@1550nm)</b>           | 1.470                  |
| <b>Core Diameter</b>                                  | 8.3 $\mu$ m            |
| <b>Core/Cladding Concentricity Error</b>              | < 0.8 $\mu$ m          |
| <b>Cladding Non-circularity</b>                       | < 1.0 $\mu$ m          |
| <b>Proof Test</b>                                     | 100 kpsi               |
| <b>Strip Force (Newtons)</b>                          | 1.3 < F < 8.9          |
| <b>Max. Attenuation (dB/km @1310/1550nm)</b>          | .35/.25                |
| <b>Minimum Bend Radius</b>                            |                        |
| Installation                                          | 20 x dia.              |
| Long Term                                             | 10 x dia.              |

| Part No. | Jacket Material | No. of Fibers | Outer Diameter |    | Nominal Cable Weight |       |
|----------|-----------------|---------------|----------------|----|----------------------|-------|
|          |                 |               | Inch           | mm | Lbs./1000'           | kg/km |

### All Dielectric

| Single-mode/125/245 Micron (Core/Clad/Coating) |      |     |      |      |     |     |
|------------------------------------------------|------|-----|------|------|-----|-----|
| <b>D6006FM</b><br><small>new</small>           | MDPE | 6   | .417 | 10.6 | 59  | 88  |
| <b>D6012FM</b><br><small>new</small>           | MDPE | 12  | .417 | 10.6 | 59  | 88  |
| <b>D6024FM</b><br><small>new</small>           | MDPE | 24  | .417 | 10.6 | 59  | 88  |
| <b>D6036FM</b><br><small>new</small>           | MDPE | 36  | .417 | 10.6 | 59  | 88  |
| <b>DT048FM</b><br><small>new</small>           | MDPE | 48  | .461 | 11.7 | 62  | 92  |
| <b>DT060FM</b><br><small>new</small>           | MDPE | 60  | .461 | 11.7 | 62  | 92  |
| <b>DT072FM</b><br><small>new</small>           | MDPE | 72  | .496 | 12.6 | 77  | 114 |
| <b>DT096FM</b><br><small>new</small>           | MDPE | 96  | .573 | 14.6 | 102 | 152 |
| <b>DT120FM</b><br><small>new</small>           | MDPE | 120 | .647 | 16.4 | 119 | 177 |
| <b>DT144FM</b><br><small>new</small>           | MDPE | 144 | .735 | 18.7 | 166 | 247 |



## Public Network Fiber Optic Cable

Loose Tube — Single Mode, Dual Window Fiber  
Light Armored

### Product Description

The BelOptix® Public Network Fiber Series addresses the converging technologies of CATV, Broadband and Telephony providing cable solutions for longhaul, local exchange and MAN/WAN applications.

The BelOptix Public Network Fiber Cables come in a variety of configurations all meeting RUS/PE-90 performance standards.

### Product Specifications

|                                    |                                  |
|------------------------------------|----------------------------------|
| <b>Fiber Counts</b>                | 6 through 144                    |
| <b>Fiber Size</b>                  | Single-mode                      |
| <b>Cladding Diameter</b>           | 125 $\pm$ 1 $\mu$ m              |
| <b>Coating Diameter</b>            | 245 $\pm$ 10 $\mu$ m, dual layer |
| <b>Fiber Coating</b>               | UV Acrylate                      |
| <b>Jacket Materials</b>            | High-density Polyethylene (HDPE) |
| <b>Strength Member</b>             | Fiberglass and Central FGE Rod   |
| <b>Operating Temperature Range</b> | -40 to +75°C                     |
| <b>Maximum Recommended Load</b>    |                                  |
| Installation                       | 600 lbs. (2700 N)                |
| Long Term                          | 135 lbs. (600 N)                 |

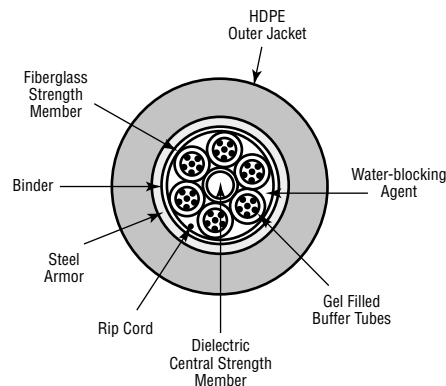
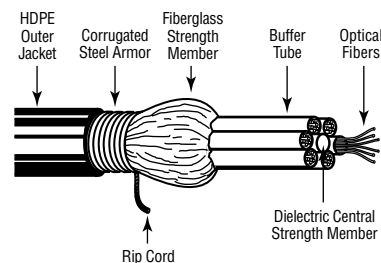
### Fiber Specifications

|                                                       |                        |
|-------------------------------------------------------|------------------------|
| <b>Mode Field Diameter (@1310nm)</b>                  | 9.2 $\pm$ 0.4 $\mu$ m  |
| <b>Mode Field Diameter (@1550nm)</b>                  | 10.5 $\pm$ 1.0 $\mu$ m |
| <b>Cable Cut-off Wavelength</b>                       | < 1260nm               |
| <b>Zero Dispersion Wavelength</b>                     | 1300–1322nm            |
| <b>Max. Dispersion Slope [Ps/(nm<sup>2</sup>-km)]</b> | 0.092                  |
| <b>Max. Dispersion (Ps/nm-km@1285–1330)</b>           | < 3.5                  |
| <b>Polarization Mode Dispersion (Ps/km @1310nm)</b>   | < 0.5                  |
| <b>Effective Refractive Index (@1310nm)</b>           | 1.466                  |
| <b>Effective Refractive Index (@1550nm)</b>           | 1.467                  |
| <b>Core Diameter</b>                                  | 8.3 $\mu$ m            |
| <b>Core/Cladding Concentricity Error</b>              | < 0.8 $\mu$ m          |
| <b>Cladding Non-circularity</b>                       | < 1.0 $\mu$ m          |
| <b>Proof Test</b>                                     | 100 kpsi               |
| <b>Strip Force (Newtons)</b>                          | 1.3 < F < 8.9          |
| <b>Max. Attenuation (dB/km @1310/1550nm)</b>          | .35/.25                |
| <b>Minimum Bend Radius</b>                            |                        |
| Installation                                          | 20 x dia.              |
| Long Term                                             | 10 x dia.              |

| Part No. | Jacket Material | No. of Fibers | Outer Diameter |    | Nominal Cable Weight |       |
|----------|-----------------|---------------|----------------|----|----------------------|-------|
|          |                 |               | Inch           | mm | Lbs./1000'           | kg/km |

### Light Armored (RUS/PE-90 Listed)

| Single-mode/125/245 Micron (Core/Clad/Coating) |      |     |      |      |     |     |
|------------------------------------------------|------|-----|------|------|-----|-----|
| <b>L6006FM</b><br><small>new</small>           | HDPE | 6   | .487 | 12.4 | 93  | 138 |
| <b>L6012FM</b><br><small>new</small>           | HDPE | 12  | .487 | 12.4 | 93  | 138 |
| <b>L6024FM</b><br><small>new</small>           | HDPE | 24  | .487 | 12.4 | 93  | 138 |
| <b>L6036FM</b><br><small>new</small>           | HDPE | 36  | .487 | 12.4 | 93  | 138 |
| <b>LT048FM</b><br><small>new</small>           | HDPE | 48  | .496 | 12.6 | 105 | 156 |
| <b>LT060FM</b><br><small>new</small>           | HDPE | 60  | .496 | 12.6 | 105 | 156 |
| <b>LT072FM</b><br><small>new</small>           | HDPE | 72  | .531 | 13.5 | 123 | 183 |
| <b>LT096FM</b><br><small>new</small>           | HDPE | 96  | .623 | 15.8 | 148 | 220 |
| <b>LT120FM</b><br><small>new</small>           | HDPE | 120 | .715 | 18.2 | 176 | 262 |
| <b>LT144FM</b><br><small>new</small>           | HDPE | 144 | .785 | 19.9 | 204 | 308 |



## Technical Information

### Color Code Charts and Index of Refraction for OTDR

**Color Code Chart: Fiber Optic Cables Outside Jackets**

| Cable Family                         | Jacket Material | Jacket Color               | Mode                                            |
|--------------------------------------|-----------------|----------------------------|-------------------------------------------------|
| <b>BitLite®</b>                      | PVC             | Yellow<br>Orange<br>Orange | Single-mode<br>50µ Multimode<br>62.5µ Multimode |
|                                      | FA              | Yellow<br>Orange<br>Orange | Single-mode<br>50µ Multimode<br>62.5µ Multimode |
| <b>LANLite®</b>                      | PVC             | Yellow<br>Orange<br>Orange | Single-mode<br>50µ Multimode<br>62.5µ Multimode |
|                                      | FA              | Yellow<br>Orange<br>Orange | Single-mode<br>50µ Multimode<br>62.5µ Multimode |
| <b>Breakout</b>                      | PVC             | Light Blue                 | Multimode                                       |
|                                      | FA              | Light Blue                 | Multimode                                       |
| <b>Single Jacket, All Dielectric</b> | MDPE            | Black                      | Multimode                                       |
| <b>Heavy-Duty, Double-Jacket</b>     | MDPE            | Black                      | Multimode                                       |
| <b>Corrugated Steel Armor</b>        | MDPE/HDPE       | Black                      | Multimode                                       |
| <b>Steel Messengered</b>             | MDPE            | Black                      | 62.5µ Multimode                                 |
| <b>TrayOptic®</b>                    | PVC             | Orange                     | 62.5µ Multimode                                 |
|                                      | CPE             | Orange                     | 62.5µ Multimode                                 |
| <b>Public Network</b>                | MDPE/<br>HDPE   | Black                      | Single-mode                                     |

CPE = Chlorinated Polyethylene

FA = Flammarrest®

MDPE = Medium-density Polyethylene

HDPE = High-density Polyethylene

PVC = Polyvinylchloride

**Color Code Chart: Fiber Optic Cables\***

| Fiber/<br>Tube No. | Color  |
|--------------------|--------|
| <b>1</b>           | Blue   |
| <b>2</b>           | Orange |
| <b>3</b>           | Green  |
| <b>4</b>           | Brown  |
| <b>5</b>           | Slate  |
| <b>6</b>           | White  |
| <b>7</b>           | Red    |
| <b>8</b>           | Black  |
| <b>9</b>           | Yellow |
| <b>10</b>          | Violet |
| <b>11</b>          | Rose   |
| <b>12</b>          | Aqua   |

\*Per TIA/EIA-598-A

**Index of Refraction for OTDR Settings**

| Fiber Type (Core/Clad)        | 850nm | 1300nm<br>1310nm | 1550nm |
|-------------------------------|-------|------------------|--------|
| <b>Single-mode</b>            | —     | 1.466            | 1.467  |
| <b>Multimode (50µ/125µ)</b>   | 1.483 | 1.479            | —      |
| <b>Multimode (62.5µ/125µ)</b> | 1.496 | 1.491            | —      |



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# Networking Cables

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## Introduction



Structured cabling is the lifeline of a communications system and a key determinant of network performance.

To help achieve optimum network performance, Belden has built reliability into each cable it produces. The result is a comprehensive, unfailing line of cables that fulfill the requirements of your specific application and/or the applicable TIA/EIA Category requirement.

A strict adherence to quality manufacturing processes and a dedication to innovative, performance-enhancing design have enabled Belden to stay at the forefront of this fast paced industry. No one makes a better performing or more reliable networking cable than Belden.

### Breakthrough Bonded-Pair Design

Belden's breakthrough Bonded-Pair cables are the result of a patented design that bonds the individual insulated conductors together along their longitudinal axes. This unique physical characteristic results in uniform conductor-to-conductor spacing — a key aspect in consistent electrical performance. Even when a Bonded-Pair cable is subjected to everyday installation stresses such as bending, coiling and pulling, its conductor-to-conductor spacing remains stable.

### Installable Performance™

A Category 5e cable that yields 5e performance on the reel but provides only Category 5 performance after installation is of little value.

Since Belden® Bonded-Pair cables are more resistant to the adverse effects of the installation/termination process, they are able to achieve Installable Performance — or achieving the same high level of performance *after* installation. (For more detailed information, please refer to Belden Technical Bulletin TB-66 *The Impact of Typical Installation Stresses on Cable Performance*.)

This superior quality/reliability attribute also offers installer-related dividends as Belden Bonded-Pair cable installations typically require less troubleshooting.

In fact, a recent contractor survey found that Belden Bonded-Pair cables offer significant time/cost savings when the complete installation is taken into consideration. This includes all installation, troubleshooting and correction procedures. (For more detailed information, please refer to Belden Technical Bulletin TB-67, *Contractor Field-Testing Survey Reveals Performance-Related Cost Savings Using Bonded-Pair Cables*.)

### More Bonded-Pair Benefits

#### Signal Integrity

Bonded-Pair cables are designed to maintain signal integrity. Ideally, the centricity, or center-to-center distance, of the copper within the two conductors of the pair should remain fixed and stable along the length of the pair. This centricity varies widely in most unbonded twisted pair cables due to the tendency of gaps to form between the two conductors of a pair.

#### Fewer Reflected Signal Problems

When a gap forms between the two conductors of a pair, it creates an impedance mismatch. When the transmitted signal encounters this mismatch, portions of the signal are reflected back toward the receiver. This occurrence defines the cable's return loss (RL) characteristics. Belden Bonded-Pair design mitigates the incidence of impedance mismatch/RL since no gaps are formed between the two insulated conductors.

#### Immunity to Noise

Twisted pairs are designed to cancel out electrical noise from the environment such as EMI/RFI or crosstalk from other pairs. When twisted pairs separate they can act as an antenna, picking up noise from outside sources. Because gaps do not form between the conductors, Bonded-Pair cables are a poor antenna; they are far less likely to receive outside noise.

Belden Bonded-Pair cables exceed the full range of performance criteria, both electrical and physical, and they set a whole new precedent for cabling with confidence. An ever-increasing number of applications requiring optimum performance at high frequencies can now be cabled with the assurance that the users' needs can be accommodated easily, economically — and with the future in mind.

### Available Literature

For more information, visit [www.belden.com](http://www.belden.com) or call Belden for your copy of any available literature.

#### Brochures

*Belden Quality*  
*Bonded-Pair Cables*

#### White Papers

*Design for Manufacturability*  
*Sigma*  
*Ensuring Quality*

#### Technical Bulletins

TB-66: *The Impact of Typical Installation Stresses on Cable Performance*  
TB-67: *Contractor Field-Testing Survey Reveals Performance-Related Cost Savings Using Bonded-Pair Cables*

#### Product Bulletins

NP 156: *New DataTwist® 6 UTP Cable from Belden Supports Category 6 Standards*  
NP 171: *New DataTwist 600e: Guaranteed Performance to 600 MHz*  
NP 175: *New DataTwist 5e+: Enhanced 5e Performance Guaranteed to 350 MHz*  
NP 177: *Cable Preparation Tool Speeds Installation of Bonded-Pair Cables*  
NP 178: *Belden MediaTwist® Category 6 Bonded-Pair Networking Cables*  
NP 179: *Belden DataTwist 350 Bonded-Pair Networking Cables*  
NP 180: *Belden DataTwist 5e Twisted Pair Networking Cables*  
NP 189: *Belden DataTwist 5e Shielded Networking Cables*



By:



INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

**DataTwist® 600e UTP Cable**

TIA/EIA-568-B.2-1, Category 6

Enhanced Category 6 Bonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|----------------------------------|------------------------------|-------------------------------------|----------------|-----------------------------|------------------------------|----------------------------------|-------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                  |                              |                                     |                |                             |                              |                                  |                                     |                                 |                    |

**23 AWG Bonded-Pairs** Solid Bare Copper • Patented E-Spline Center Member • Rip Cord • See Color Code Chart (below)**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue, Black, White or Dark Gray)

|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|--|------------------------------------|--------------------------------|---|----------------|------------------|--------------|--------------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
|  | <b>7851A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMR FT4 | 4 | 1000<br>A-1000 | 304.8<br>A-304.8 | 40.0<br>42.0 | 18.2<br>19.1 | .009 | .23 | .225 | 5.72 | 8.2 | 3.0 | 65.6 | 1     | 1.9  | 80.3 | 78.5 | 70.8 | 100±12 | 20.0 |
|  |                                    |                                |   |                |                  |              |              |      |     | x    | x    |     |     |      | 10    | 5.7  | 65.3 | 59.6 | 50.8 | 100±12 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     | .310 | 7.87 |     |     |      | 31.25 | 10.2 | 57.9 | 47.7 | 40.9 | 100±15 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 62.5  | 14.7 | 53.4 | 38.7 | 34.9 | 100±15 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 100   | 18.9 | 50.3 | 31.4 | 30.8 | 100±15 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 155   | 23.9 | 47.5 | 23.5 | 27.0 | 100±15 | 22.8 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 200   | 27.5 | 45.8 | 18.3 | 24.8 | 100±15 | 21.7 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 250   | 31.2 | 44.3 | 13.2 | 22.8 | 100±20 | 20.5 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 350   | 37.7 | 40.2 | 4.5  | 19.9 | 100±22 | 19.8 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 400   | 40.6 | 39.3 | 0.6  | 18.8 | 100±22 | 19.5 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 500   | 46.2 | 37.8 | >0*  | 16.8 | 100±22 | 18.4 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 550   | 48.8 | 37.2 | —    | 16.0 | 100±22 | 18.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 600   | 51.4 | 36.6 | —    | 15.2 | 100±22 | 17.6 |

Jacket sequentially marked at 2 ft. intervals.

U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1

Third party verified to TIA/EIA-568-B.2-1, Category 6

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Red, Orange, Yellow, Green, Blue, Black, White or Gray)

|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|--|------------------------------------|--------------------------------|---|----------------|------------------|--------------|--------------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
|  | <b>7852A</b><br><small>new</small> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | 1000<br>A-1000 | 304.8<br>A-304.8 | 37.0<br>39.0 | 16.8<br>17.7 | .008 | .20 | .215 | 5.46 | 8.2 | 3.0 | 65.6 | 1     | 1.9  | 80.3 | 78.5 | 70.8 | 100±12 | 20.0 |
|  |                                    |                                |   |                |                  |              |              |      |     | x    | x    |     |     |      | 10    | 5.7  | 65.3 | 59.6 | 50.8 | 100±12 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     | .290 | 7.37 |     |     |      | 31.25 | 10.2 | 57.9 | 47.7 | 40.9 | 100±15 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 62.5  | 14.7 | 53.4 | 38.7 | 34.9 | 100±15 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 100   | 18.9 | 50.3 | 31.4 | 30.8 | 100±15 | 25.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 155   | 23.9 | 47.5 | 23.5 | 27.0 | 100±15 | 22.8 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 200   | 27.5 | 45.8 | 18.3 | 24.8 | 100±15 | 21.7 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 250   | 31.2 | 44.3 | 13.2 | 22.8 | 100±20 | 20.5 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 350   | 37.7 | 40.2 | 4.5  | 19.9 | 100±22 | 19.8 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 400   | 40.6 | 39.3 | 0.6  | 18.8 | 100±22 | 19.5 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 500   | 46.2 | 37.8 | >0*  | 16.8 | 100±22 | 18.4 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 550   | 48.8 | 37.2 | —    | 16.0 | 100±22 | 18.0 |
|  |                                    |                                |   |                |                  |              |              |      |     |      |      |     |     |      | 600   | 51.4 | 36.6 | —    | 15.2 | 100±22 | 17.6 |

Jacket sequentially marked at 2 ft. intervals.

U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1

Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

\*PSUM ACR &gt;0 is guaranteed to 460 MHz

**Color Codes: DataTwist 600e**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

Teflon is a DuPont trademark.

**DataTwist 600e: Beyond Category 6**

Belden® DataTwist 600e data cable is a revolutionary UTP cable engineered specifically to perform well beyond Category 6 standards. While Category 6 cable is specified only to 250 MHz, DataTwist 600e is the only UTP cable in the industry fully characterized with guaranteed performance to 600 MHz. So users have far more headroom to compensate for unforeseen factors that can inhibit the performance of a cabling system today...and protection of their technology investment for the future.

**Handy Cable Preparation Tool** new  
**Speeds Installation of Bonded-Pair Cables**

You know the high performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden Cable Preparation Tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination providing special features that help separate twisted pairs. The Cable Preparation Tool is packed with every spool of DataTwist 600e. See page 11.24 for more information.





**MediaTwist® UTP Cable**

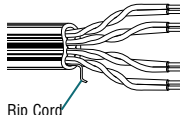
TIA/EIA-568-B.2-1, Category 6

Enhanced Category 6 Bonded-Pair Cables



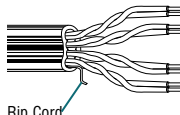
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                      |                                         |                                 |                    |

**23 AWG Bonded-Pairs Solid Bare Copper • Rip Cord • See Color Code Chart (below)****Non-Plenum • Polyolefin Insulation • PVC Jacket (Blue, Red, Yellow, Orange, Green, Gold, Violet, White, Black or Dark Gray)**

|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      |       |      |      |    |      |        |      |
|----------------------------------------------------------------------------------|--------------|--------------------------------|---|-----------------|------------------|------------------------------|--|------|-----|-------------------|-------------------|-----|-----|------|-------|------|------|----|------|--------|------|
|  | <b>1872A</b> | NEC:<br>CMR<br>CEC:<br>CMP FT4 | 4 | 1000<br>A-1000* | 304.8<br>A-304.8 | 37.0<br>16.8<br>38.0<br>17.3 |  | .009 | .23 | .365<br>x<br>.165 | 9.27<br>x<br>4.19 | 9.0 | 3.0 | 49.2 | 1     | 1.9  | 72.3 | 70 | 64.8 | 100±12 | 20.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 4     | 3.7  | 63.3 | 59 | 52.7 | 100±12 | 23.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 8     | 5.3  | 58.8 | 53 | 46.7 | 100±12 | 24.5 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 10    | 5.9  | 57.3 | 51 | 44.8 | 100±12 | 25.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 16    | 7.5  | 54.3 | 46 | 40.7 | 100±12 | 25.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 25    | 9.5  | 51.4 | 42 | 36.8 | 100±15 | 24.3 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 31.25 | 10.6 | 49.9 | 39 | 34.9 | 100±15 | 23.6 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 62.5  | 15.4 | 45.4 | 30 | 28.8 | 100±15 | 21.5 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 100   | 19.8 | 42.3 | 25 | 24.8 | 100±15 | 21.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 155   | 25.1 | 39.5 | 14 | 20.9 | 100±15 | 21.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 200   | 29.0 | 37.8 | 10 | 18.7 | 100±15 | 21.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 250   | 32.8 | 36.3 | 3  | 16.8 | 100±20 | 18.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 300   | 35.2 | 35.2 | >0 | 15.2 | 100±20 | 18.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 350   | 39.8 | 34.2 | —  | 13.9 | 100±22 | 17.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 400   | 43.0 | —    | —  | —    | 100±32 | 14.0 |
|                                                                                  |              |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 500   | 49.0 | —    | —  | —    | 100±32 | 14.0 |

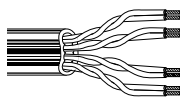
\*A-1000 ft. put-up not available in Black.  
Jacket sequentially marked at 2 ft. intervals.  
U.S. Patents 5,606,151; 5,734,126; 5,821,467  
Third party verified to TIA/EIA-568-B.2-1, Category 6

**Plenum • FEP Teflon® Insulation • Flammarrest® Jacket (Blue, Natural, Dark Gray, Red, Yellow, Orange, Green, Gold, Violet, White or Black)**

|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      |       |      |      |    |      |        |      |
|----------------------------------------------------------------------------------|--------------|--------------------------------|---|------------------|------------------|------------------------------|--|------|-----|-------------------|-------------------|-----|-----|------|-------|------|------|----|------|--------|------|
|  | <b>1874A</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | 1000<br>A-1000** | 304.8<br>A-304.8 | 40.0<br>18.2<br>41.0<br>18.6 |  | .009 | .23 | .365<br>x<br>.165 | 9.27<br>x<br>4.19 | 9.0 | 3.0 | 49.2 | 1     | 1.9  | 72.3 | 70 | 64.8 | 100±12 | 20.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 4     | 3.7  | 63.3 | 59 | 52.7 | 100±12 | 23.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 8     | 5.3  | 58.8 | 53 | 46.7 | 100±12 | 24.5 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 10    | 5.9  | 57.3 | 51 | 44.8 | 100±12 | 25.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 16    | 7.5  | 54.3 | 46 | 40.7 | 100±12 | 25.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 25    | 9.5  | 51.4 | 42 | 36.8 | 100±15 | 24.3 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 31.25 | 10.6 | 49.9 | 39 | 34.9 | 100±15 | 23.6 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 62.5  | 15.4 | 45.4 | 30 | 28.8 | 100±15 | 21.5 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 100   | 19.8 | 42.3 | 25 | 24.8 | 100±15 | 21.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 155   | 25.1 | 39.5 | 14 | 20.9 | 100±15 | 21.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 200   | 29.0 | 37.8 | 10 | 18.7 | 100±15 | 21.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 250   | 32.8 | 36.3 | 3  | 16.8 | 100±20 | 18.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 300   | 35.2 | 35.2 | >0 | 15.2 | 100±20 | 18.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 350   | 39.8 | 34.2 | —  | 13.9 | 100±22 | 17.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 400   | 43.0 | —    | —  | —    | 100±32 | 14.0 |
|                                                                                  |              |                                |   |                  |                  |                              |  |      |     |                   |                   |     |     |      | 500   | 49.0 | —    | —  | —    | 100±32 | 14.0 |

\*\*A-1000 ft. put-up not available in Black.  
Jacket sequentially marked at 2 ft. intervals.  
U.S. Patents 5,606,151; 5,734,126; 5,821,467  
Third party verified to TIA/EIA-568-B.2-1, Category 6

**Patch Cables • 24 AWG Bonded-Pairs Stranded (7x32) Tinned Copper • RJ-45 Compatible • See Color Code Chart (below)\*****Non-Plenum • Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Violet, Light Gray, Dark Gray, White or Black)**

|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      |       |      |      |    |      |        |      |
|------------------------------------------------------------------------------------|---------------|--------------------------------|---|-----------------|------------------|------------------------------|--|------|-----|-------------------|-------------------|-----|-----|------|-------|------|------|----|------|--------|------|
|  | <b>1875GA</b> | NEC:<br>CMR<br>CEC:<br>CMP FT4 | 4 | 1000<br>A-1000† | 304.8<br>A-304.8 | 31.0<br>14.1<br>32.0<br>14.5 |  | .009 | .23 | .365<br>x<br>.165 | 9.27<br>x<br>4.19 | 9.0 | 3.0 | 49.2 | 1     | 2.0  | 72.3 | 70 | 64.8 | 100±12 | 20.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 4     | 4.1  | 63.3 | 59 | 52.7 | 100±12 | 23.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 8     | 5.8  | 58.8 | 53 | 46.7 | 100±12 | 24.5 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 10    | 6.5  | 57.3 | 51 | 44.8 | 100±12 | 25.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 16    | 8.2  | 54.3 | 46 | 40.7 | 100±12 | 25.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 20    | 9.3  | 52.8 | 44 | 38.7 | 100±12 | 25.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 25    | 10.4 | 51.4 | 41 | 36.8 | 100±15 | 24.3 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 31.25 | 11.7 | 49.9 | 38 | 34.9 | 100±15 | 23.6 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 62.5  | 17.0 | 45.4 | 28 | 28.8 | 100±15 | 21.5 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 100   | 22.0 | 42.3 | 20 | 24.8 | 100±15 | 21.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 155   | 30.2 | 39.5 | 9  | 20.9 | 100±15 | 21.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 200   | 34.8 | 37.8 | 3  | 18.7 | 100±15 | 21.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 250   | 39.4 | 36.3 | —  | 16.8 | 100±20 | 18.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 310   | 47.6 | 34.9 | —  | 14.9 | 100±20 | 18.0 |
|                                                                                    |               |                                |   |                 |                  |                              |  |      |     |                   |                   |     |     |      | 350   | 51.1 | 34.2 | —  | 13.9 | 100±22 | 17.0 |

†A-1000 ft. put-up not available in Red, Orange, Blue or Black.  
††A-1000 ft. put-up not available in Red, Orange, Dark Gray or Black. 1000 ft. put-up not available in Red, Orange or Dark Gray.  
U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

\*Values provided for information only.

**Color Codes: MediaTwist**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

**Color Codes: MediaTwist Patch**

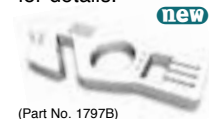
| Pair No. | 1875GA Color Combination     | 1875GB Color Combination     |
|----------|------------------------------|------------------------------|
| 1        | White/Brown Stripe & Brown   | White/Brown Stripe & Brown   |
| 2        | White/Blue Stripe & Blue     | White/Blue Stripe & Blue     |
| 3        | White/Orange Stripe & Orange | White/Green Stripe & Green   |
| 4        | White/Green Stripe & Green   | White/Orange Stripe & Orange |

\*Color rotation available for T568-A or T568-B wiring schemes.

Teflon is a DuPont trademark.

**Handy Cable Preparation Tool for Bonded-Pairs**

See page 11.24 for details.



(Part No. 1797B)



Belden  
INTERSTATEWIRE CO.  
INCORPORATED

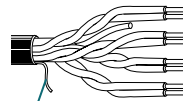
**DataTwist® 6 UTP Cable**

TIA/EIA-568-B.2-1, Category 6 Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|----------------------------------|------------------------------|-------------------------------------|----------------|-----------------------------|------------------------------|----------------------------------|-------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                  |                              |                                     |                |                             |                              |                                  |                                     |                                 |                    |

**23 AWG Solid Bare Copper • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)**

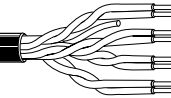
| Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, White or Black) |                            |         |   |        |         |      |      |      |     |      |      |      |     |      |       |      |      |        |      |        |      |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|---------|---|--------|---------|------|------|------|-----|------|------|------|-----|------|-------|------|------|--------|------|--------|------|
|                                      | <b>7881A</b><br><b>new</b> | NEC:    | 4 | 1000   | 304.8   | 32.0 | 14.5 | .009 | .23 | .235 | 5.97 | 9.38 | 5.0 | 330  | 1     | 2.0  | 72.3 | 70.3   | 64.8 | 100±15 | 20.0 |
|                                                                                                                       |                            | CMR     |   | A-1000 | A-304.8 | 34.0 | 15.4 |      |     |      |      |      |     |      | 10    | 6.0  | 57.3 | 51.3   | 44.8 | 100±15 | 25.0 |
|                                                                                                                       |                            | CEC:    |   |        |         |      |      |      |     |      |      |      |     |      | 20    | 8.5  | 52.8 | 44.3   | 38.7 | 100±15 | 25.0 |
|                                                                                                                       |                            | CMR FT4 |   |        |         |      |      |      |     |      |      |      |     |      | 31.25 | 10.7 | 49.9 | 39.2   | 34.9 | 100±15 | 23.6 |
|                                                                                                                       |                            |         |   |        |         |      |      |      |     |      |      |      |     |      | 62.5  | 15.4 | 45.4 | 30.0   | 28.8 | 100±15 | 21.5 |
|                                                                                                                       |                            |         |   |        |         |      |      |      |     |      |      |      |     |      | 100   | 19.8 | 42.3 | 22.5   | 24.8 | 100±15 | 20.1 |
|                                                                                                                       |                            |         |   |        |         |      |      |      |     |      |      |      |     |      | 200   | 29.0 | 37.8 | 8.8    | 18.7 | 100±22 | 18.0 |
|                                                                                                                       |                            |         |   |        |         |      |      |      |     |      |      |      | 250 | 32.8 | 36.3  | 3.5  | 16.8 | 100±32 | 17.3 |        |      |

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

| Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, Natural or Black) |                            |         |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |        |        |      |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|--------|--------|------|
|                                             | <b>7882A</b><br><b>new</b> | NEC:    | 4 | 1000   | 304.8   | 33.0 | 15.0 | .008 | .20 | .224 | 5.69 | 9.38 | 5.0 | 330 | 1     | 2.0  | 72.3 | 70.3 | 64.8   | 100±15 | 20.0 |
|                                                                                                                              |                            | CMP     |   | A-1000 | A-304.8 | 35.0 | 15.9 |      |     |      |      |      |     |     | 10    | 6.0  | 57.3 | 51.3 | 44.8   | 100±15 | 25.0 |
|                                                                                                                              |                            | CEC:    |   |        |         |      |      |      |     |      |      |      |     |     | 20    | 8.5  | 52.8 | 44.3 | 38.7   | 100±15 | 25.0 |
|                                                                                                                              |                            | CMP FT6 |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 10.7 | 49.9 | 39.2 | 34.9   | 100±15 | 23.6 |
|                                                                                                                              |                            |         |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 15.4 | 45.4 | 30.0 | 28.8   | 100±15 | 21.5 |
|                                                                                                                              |                            |         |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 19.8 | 42.3 | 22.5 | 24.8   | 100±15 | 20.1 |
|                                                                                                                              |                            |         |   |        |         |      |      |      |     |      |      |      |     |     | 200   | 29.0 | 37.8 | 8.8  | 18.7   | 100±22 | 18.0 |
|                                                                                                                              |                            |         |   |        |         |      |      |      |     |      |      |      |     | 250 | 32.8  | 36.3 | 3.5  | 16.8 | 100±32 | 17.3   |      |

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

**Patch Cables • 24 AWG Solid Bare Copper • Twisted Pairs • Central Slit-Film Filler • RJ-45 Compatible\* • See Color Code Chart (below)\***

| Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Violet, Light Gray, White or Black) |                                  |        |   |      |       |      |      |      |     |      |      |      |     |     |       |      |      |      |        |        |      |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------|---|------|-------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|--------|--------|------|
|                                                  | <b>7883A</b><br><span>new</span> | NEC:   | 4 | 1000 | 304.8 | 24.0 | 10.9 | .008 | .20 | .205 | 5.21 | 9.38 | 5.0 | 330 | 1     | 2.4  | 72.3 | 69.9 | 64.8   | 100±15 | 20.0 |
|                                                                                                                                     |                                  | CM     |   |      |       |      |      |      |     |      |      |      |     |     | 10    | 7.1  | 57.3 | 50.2 | 44.8   | 100±15 | 25.0 |
|                                                                                                                                     |                                  | CEC:   |   |      |       |      |      |      |     |      |      |      |     |     | 20    | 10.2 | 52.8 | 42.6 | 38.7   | 100±15 | 25.0 |
|                                                                                                                                     |                                  | CM FT1 |   |      |       |      |      |      |     |      |      |      |     |     | 31.25 | 12.9 | 49.9 | 37.0 | 34.9   | 100±15 | 23.6 |
|                                                                                                                                     |                                  |        |   |      |       |      |      |      |     |      |      |      |     |     | 62.5  | 18.5 | 45.4 | 26.9 | 28.8   | 100±15 | 21.5 |
|                                                                                                                                     |                                  |        |   |      |       |      |      |      |     |      |      |      |     |     | 100   | 23.8 | 42.3 | 18.5 | 24.8   | 100±15 | 20.1 |
|                                                                                                                                     |                                  |        |   |      |       |      |      |      |     |      |      |      |     |     | 200   | 34.8 | 37.8 | 3.0  | 18.7   | 100±22 | 18.0 |
|                                                                                                                                     |                                  |        |   |      |       |      |      |      |     |      |      |      |     | 250 | 39.4  | 36.3 | —    | 16.8 | 100±32 | 17.3   |      |

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

\*For either T568-A or T568-B configurations.

**Color Codes: DataTwist 6**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

**Color Codes: DataTwist 6 Patch**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

\*Color rotation available for T568-A or T568-B wiring schemes.

Teflon is a DuPont trademark.



**DataTwist® 350 UTP Cable**

TIA/EIA-568-B.2, Category 5e

Enhanced Category 5e Bonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|----------------------------------|------------------------------|-------------------------------------|----------------|-----------------------------|------------------------------|----------------------------------|-------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                  |                              |                                     |                |                             |                              |                                  |                                     |                                 |                    |

**24 AWG Bonded-Pairs Solid Bare Copper • Rip Cord • See Color Code Chart (below)****Non-Plenum • Polyolefin Insulation • PVC Jacket** (Red, Orange, White, Black, Yellow, Green, Blue, Purple, Light Gray or Gray)

|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|--|---------------|---------|-----|-----------|---------|------|------|------|-----|------|-------|-----|-----|------|-------|------|------|------|------|--------|------|
|  | <b>1700A</b>  | NEC:    | 4   | U-1000    | U-304.8 | 22.0 | 10.0 | .009 | .23 | .200 | 5.08  | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|  |               | CM      |     | 1000†     | 304.8   | 22.0 | 10.0 |      |     |      |       |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|  |               | CEC:    |     | 1640†     | 500.0   | 36.1 | 16.4 |      |     |      |       |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|  |               | CM      |     | 3000†     | 914.4   | 63.0 | 28.6 |      |     |      |       |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|  |               |         |     | 3280†     | 1000.0  | 72.2 | 32.8 |      |     |      |       |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|  | <b>1702A*</b> | NEC:    | 2x4 | 1000††    | 304.8   | 45.0 | 20.4 | .009 | .23 | .200 | 5.08  |     |     |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±20 | 19.0 |
|  |               | CM      |     | 1640††    | 500.0   | 73.8 | 33.5 |      |     | x    | x     |     |     |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|  |               | CEC:    |     |           |         |      |      |      |     | .415 | 10.54 |     |     |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |
|  |               | CM      |     |           |         |      |      |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|  |               | NEC:    | 4   | U-1000††† | U-304.8 | 22.0 | 10.0 | .009 | .23 | .204 | 5.18  |     |     |      |       |      |      |      |      |        |      |
|  |               | CMR     |     | 1000†††   | 304.8   | 22.0 | 10.0 |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|  |               | CEC:    |     | 3000†††   | 914.4   | 63.0 | 28.6 |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|  |               | CMR FT4 |     |           |         |      |      |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|  |               |         |     |           |         |      |      |      |     |      |       |     |     |      |       |      |      |      |      |        |      |

\*1702A is Siamese version of 1700A.

†1000 ft. put-up not available in Gray. 3000 ft. put-up available in Red, Blue, Purple, White or Light Gray only. 1640 ft. and 3280 ft. put-ups available in Light Gray or Blue only.

††1000 ft. and 1640 ft. put-ups available in Light Gray only.

†††U-1000 ft. and 1000 ft. put-ups not available in Black or Gray. 3000 ft. put-up available in Red, Blue, Purple, White or Light Gray only.

Third party verified to TIA/EIA-568-B.2, Category 5e

Jacket sequentially marked at 2 ft. intervals. • U.S. Patents 5,606,151 and 5,734,126

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Red, Orange, Gray, Yellow, Green, Blue, Purple, Natural or Black)

|  |                |             |     |        |         |      |      |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|--|----------------|-------------|-----|--------|---------|------|------|------|-----|------|-------|-----|-----|------|-------|------|------|------|------|--------|------|
|  | <b>1701A</b>   | NEC:        | 4   | U-1000 | U-304.8 | 23.0 | 10.5 | .008 | .20 | .200 | 5.08  | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|  |                | CMP         |     | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |       |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|  |                | CEC:        |     | 3000†  | 914.4   | 66.0 | 30.0 |      |     |      |       |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|  |                | CMP FT6     |     |        |         |      |      |      |     |      |       |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|  |                |             |     |        |         |      |      |      |     |      |       |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|  |                |             |     |        |         |      |      |      |     |      |       |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|  |                |             |     |        |         |      |      |      |     |      |       |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|  |                |             |     |        |         |      |      |      |     |      |       |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|  |                |             |     |        |         |      |      |      |     |      |       |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|  |                |             |     |        |         |      |      |      |     |      |       |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|  | <b>1703A**</b> | NEC:        | 2x4 | 1000†† | 304.8   | 48.0 | 21.8 | .008 | .20 | .195 | 4.95  |     |     |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±20 | 19.0 |
|  |                | CMP         |     |        |         |      |      |      |     | x    | x     |     |     |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|  |                | CEC:        |     |        |         |      |      |      |     | .405 | 10.29 |     |     |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |
|  |                | CMP FT6     |     |        |         |      |      |      |     |      |       |     |     |      |       |      |      |      |      |        |      |
|  |                | NEC:        | 4   | U-1000 | U-304.8 | 24.0 | 10.9 | .008 | .20 | .187 | 4.75  | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|  |                | Limited     |     | 1000   | 304.8   | 24.0 | 10.9 |      |     |      |       |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|  |                | Combustible |     |        |         |      |      |      |     |      |       |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|  |                | FHC 25/50   |     |        |         |      |      |      |     |      |       |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|  |                | CMP         |     |        |         |      |      |      |     |      |       |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|  |                | CEC:        |     |        |         |      |      |      |     |      |       |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |

\*\*1703A is Siamese version of 1701A.

†3000 ft. put-up available in Red, Blue, Green, Yellow or Natural only.

††1000 ft. put-up available in Blue or Natural only.

Third party verified to TIA/EIA-568-B.2, Category 5e

Jacket sequentially marked at 2 ft. intervals. • U.S. Patents 5,606,151 and 5,734,126

**Plenum • FEP Teflon Insulation • FEP Jacket** (Available in Blue or White)

|  |               |             |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|--|---------------|-------------|---|--------|---------|------|------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
|  | <b>1701LC</b> | NEC:        | 4 | U-1000 | U-304.8 | 24.0 | 10.9 | .008 | .20 | .187 | 4.75 | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|  |               | Limited     |   | 1000   | 304.8   | 24.0 | 10.9 |      |     |      |      |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|  |               | Combustible |   |        |         |      |      |      |     |      |      |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|  |               | FHC 25/50   |   |        |         |      |      |      |     |      |      |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|  |               | CMP         |   |        |         |      |      |      |     |      |      |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|  |               | CEC:        |   |        |         |      |      |      |     |      |      |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|  |               | CMP FT6     |   |        |         |      |      |      |     |      |      |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|  |               |             |   |        |         |      |      |      |     |      |      |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|  |               |             |   |        |         |      |      |      |     |      |      |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|  |               |             |   |        |         |      |      |      |     |      |      |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |

1701LC does not have a rip cord.

Third party verified to TIA/EIA-568-B.2, Category 5e

Jacket sequentially marked at 2 ft. intervals. • U.S. Patents 5,606,151 and 5,734,126

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 350**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

**Get the Bonded-Pairs Cable Preparation Tool**

See page 11.24 for details.

(Part No. 1797B)



Teflon is a DuPont trademark.



By:



INTERSTATE WIRE

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Belden Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

**DataTwist® 350 UTP Patch Cable**

TIA/EIA-568-B.2, Category 5e

Enhanced Category 5e Bonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                      |                                         |                                 |                    |

**24 AWG Bonded-Pairs** Stranded (7x32) Tinned Copper • RJ-45 Compatible • See Color Code Chart (below)

| Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Black, Yellow, Green, Orange, Blue, Violet or Light Gray) |       |      |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|------------------------------------------------------------------------------------------------------------------------------|-------|------|---|--------|---------|------|------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
|                                             | 1752A | NEC: | 4 | U-1000 | U-304.8 | 23.0 | 10.5 | .008 | .20 | .220 | 5.59 | 9.0 | 3.0 | 66.0 | 1     | 2.4  | 65.3 | 62.9 | 60.8 | 100±12 | 20.0 |
|                                                                                                                              |       | CM   |   | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |      |     |     |      | 4     | 4.8  | 56.3 | 51.5 | 48.7 | 100±12 | 23.0 |
|                                                                                                                              |       | CEC: |   |        |         |      |      |      |     |      |      |     |     |      | 8     | 6.8  | 51.8 | 45.0 | 42.7 | 100±12 | 24.5 |
|                                                                                                                              |       | CM   |   |        |         |      |      |      |     |      |      |     |     |      | 10    | 7.7  | 50.3 | 42.6 | 40.8 | 100±12 | 25.0 |
|                                                                                                                              |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 16    | 9.7  | 47.3 | 37.5 | 36.7 | 100±12 | 25.0 |
|                                                                                                                              |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 25    | 12.4 | 44.3 | 31.9 | 32.8 | 100±15 | 24.3 |
|                                                                                                                              |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 31.25 | 13.9 | 42.9 | 29.0 | 30.9 | 100±15 | 23.6 |
|                                                                                                                              |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 62.5  | 20.2 | 38.4 | 18.3 | 24.8 | 100±15 | 21.5 |
|                                                                                                                              |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 100   | 26.0 | 35.3 | 9.2  | 20.8 | 100±15 | 20.1 |
|                                                                                                                              |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 155   | 33.2 | 32.5 | —    | 16.9 | 100±18 | 19.0 |
| Jacket sequentially marked at 2 ft. intervals.                                                                               |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 200   | 38.4 | 30.8 | —    | 14.7 | 100±20 | 19.0 |
| U.S. Patents 5,606,151; 5,734,126 and 5,763,823                                                                              |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 250   | 43.7 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
| Third party verified to TIA/EIA 568 B.2, Category 5                                                                          |       |      |   |        |         |      |      |      |     |      |      |     |     |      | 350   | 53.2 | 27.2 | —    | 9.9  | 100±22 | 17.0 |

Jacket sequentially marked at 2 ft. intervals.

U.S. Patents 5,606,151; 5,734,126 and 5,763,823

Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 350**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

**Get the Bonded-Pairs  
Cable Preparation Tool**See page 11.24 for details.  
(Part No. 1797B)

**DataTwist® 5e+ UTP Cable**

TIA/EIA-568-B.2, Category 5e

Enhanced Category 5e Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                      |                                         |                                 |                    |

**24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)****Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, White, Blue or Dark Gray)

|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|--|------------------------------------|-----------------|---|--------|---------|------|------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
|  | <b>1500A</b><br><small>new</small> | NEC:<br>CM      | 4 | 1000   | 304.8   | 24.0 | 10.9 | .008 | .20 | .200 | 5.08 | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|  |                                    | CEC:<br>CM FT1  |   | A-1000 | A-304.8 | 27.0 | 12.3 |      |     |      |      |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|  | <b>1500R</b><br><small>new</small> | NEC:<br>CMR     | 4 | 1000   | 304.8   | 25.0 | 11.4 | .008 | .20 | .204 | 5.18 |     |     |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±20 | 19.0 |
|  |                                    | CEC:<br>CMR FT4 |   | A-1000 | A-304.8 | 28.0 | 12.7 |      |     |      |      |     |     |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Red, Orange, Yellow, Green, Gray, Blue or Natural)

|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|--|------------------------------------|-----------------|---|--------|---------|------|------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
|  | <b>1501A</b><br><small>new</small> | NEC:<br>CMP     | 4 | 1000   | 304.8   | 26.0 | 11.8 | .007 | .18 | .200 | 5.08 | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|  |                                    | CEC:<br>CMP FT6 |   | A-1000 | A-304.8 | 27.0 | 12.3 |      |     |      |      |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±20 | 19.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|  |                                    |                 |   |        |         |      |      |      |     |      |      |     |     |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 5e+**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

Teflon is a DuPont trademark.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

**DataTwist® 5e UTP Cable**

TIA/EIA-568-B.2, Category 5e Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|----------------------------------|------------------------------|-------------------------------------|----------------|-----------------------------|------------------------------|----------------------------------|-------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                  |                              |                                     |                |                             |                              |                                  |                                     |                                 |                    |

**24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)****Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Dark Gray or Blue)

|  |              |      |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |    |      |        |      |
|--|--------------|------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|----|------|--------|------|
|  | <b>1588A</b> | NEC: | 2 | U-1000 | U-304.8 | 14.0 | 6.4  | .008 | .20 | .183 | 4.65 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 60 | 60.8 | 100±15 | 20.0 |
|  |              | CM   |   | 1000   | 304.8   | 15.0 | 6.8  |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41 | 40.8 | 100±15 | 25.0 |
|  |              | CEC: |   | 1640†  | 500.0   | 24.6 | 11.2 |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36 | 36.7 | 100±15 | 25.0 |
|  |              | CM   |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28 | 30.9 | 100±15 | 23.6 |
|  |              |      |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.5 | 19 | 24.8 | 100±15 | 21.5 |

Rip Cord

|  |              |         |   |          |         |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--------------|---------|---|----------|---------|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | <b>1588R</b> | NEC:    | 2 | U-1000†† | U-304.8 | 14.0 | 6.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |              | CMR     |   | 1000††   | 304.8   | 15.0 | 6.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |              | CEC:    |   |          |         |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |              | CMR FT4 |   |          |         |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

†1640 ft. put-up available in Dark Gray only.

††U-1000 ft. and 1000 ft. put-ups available in Blue only

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in White, Black, Dark Gray, Blue, Red, Orange, Yellow, Green or Pink)

|  |              |      |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|--|--------------|------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
|  | <b>1583A</b> | NEC: | 4 | U-1000 | U-304.8 | 21.0 | 9.5  | .008 | .20 | .214 | 5.44 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8 | 100±15 | 20.0 |
|  |              | CM   |   | 1000   | 304.8   | 21.0 | 9.5  |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7 | 100±15 | 23.0 |
|  |              | CEC: |   | 1640†  | 500.0   | 34.4 | 15.7 |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8 | 100±15 | 25.0 |
|  |              | CM   |   | 3000†  | 914.4   | 63.0 | 28.6 |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|  |              |      |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9 | 100±15 | 23.6 |

Rip Cord

|  |              |         |   |          |         |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--------------|---------|---|----------|---------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | <b>1583R</b> | NEC:    | 4 | U-1000†† | U-304.8 | 22.0 | 10.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |              | CMR     |   | 1000††   | 304.8   | 22.0 | 10.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |              | CEC:    |   | 3000††   | 914.4   | 66.0 | 30.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |              | CMR FT4 |   |          |         |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

†1640 ft. put-up available in Dark Gray or Blue only. 3000 ft. put-up available in Dark Gray, White or Blue only.

††U-1000 ft. and 1000 ft. put-ups not available in Black. 3000 ft. put-ups available in Dark Gray, White or Blue only.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

**Non-Plenum • Polyolefin Insulation • Fluorescent Pink PVC Jacket**

|  |                         |         |   |        |         |      |     |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|--|-------------------------|---------|---|--------|---------|------|-----|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
|  | <b>DataBrite® 1583B</b> | NEC:    | 4 | U-1000 | U-304.8 | 21.0 | 9.5 | .008 | .20 | .214 | 5.44 | 9.38 | 3.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8 | 100±15 | 20.0 |
|  |                         | CMR     |   | 1000   | 304.8   | 21.0 | 9.5 |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7 | 100±15 | 23.0 |
|  |                         | CEC:    |   |        |         |      |     |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8 | 100±15 | 25.0 |
|  |                         | CMR FT4 |   |        |         |      |     |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|  |                         |         |   |        |         |      |     |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9 | 100±15 | 23.6 |

Rip Cord

Third party verified to TIA/EIA-568-B.2, Category 5e

**Non-Plenum • Polyolefin Insulation • UV Resistant PVC Jacket** (Available in Gray, White or Ivory)

|  |                  |             |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|--|------------------|-------------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
|  | <b>1594A new</b> | NEC:        | 4 | U-1000 | U-304.8 | 23.0 | 10.5 | .008 | .20 | .215 | 5.46 | 9.38 | 3.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8 | 100±15 | 20.0 |
|  |                  | CMR/CMX     |   |        |         |      |      |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7 | 100±15 | 23.0 |
|  |                  | CEC:        |   |        |         |      |      |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8 | 100±15 | 25.0 |
|  |                  | CMR/CMX FT4 |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|  |                  |             |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9 | 100±15 | 23.6 |

Rip Cord

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 5e**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



**DataTwist® 5e UTP Cable**

TIA/EIA-568-B.2, Category 5e Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|----------------------------------|------------------------------|-------------------------------------|----------------|-----------------------------|------------------------------|----------------------------------|-------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                  |                              |                                     |                |                             |                              |                                  |                                     |                                 |                    |

**24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)****Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Natural, Blue, Red, Orange, Yellow, Green, Gray, Black or Pink)

|  |              |                                |   |       |       |      |      |      |     |      |      |      |     |     |       |      |      |    |      |        |      |
|--|--------------|--------------------------------|---|-------|-------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|----|------|--------|------|
|  | <b>1590A</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | 1000* | 304.8 | 16.0 | 7.3  | .007 | .18 | .175 | 4.44 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 60 | 60.8 | 100±15 | 20.0 |
|  |              |                                |   | 3000* | 914.6 | 45.0 | 20.5 |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41 | 40.8 | 100±15 | 25.0 |
|  |              |                                |   |       |       |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36 | 36.7 | 100±15 | 25.0 |
|  |              |                                |   |       |       |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28 | 30.9 | 100±15 | 23.6 |
|  |              |                                |   |       |       |      |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.5 | 19 | 24.8 | 100±15 | 21.5 |
|  |              |                                |   |       |       |      |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.3 | 11 | 20.8 | 100±15 | 20.1 |

Rip Cord

\*1000 ft. put-up available in Natural or Blue only. 3000 ft. put-up available in Natural only.

|  |              |                                |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|--|--------------|--------------------------------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
|  | <b>1585A</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | U-1000 | U-304.8 | 23.0 | 10.5 | .007 | .18 | .200 | 5.08 | 9.38 | 3.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8 | 100±15 | 20.0 |
|  |              |                                |   | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7 | 100±15 | 23.0 |
|  |              |                                |   | 3000†  | 914.6   | 69.0 | 31.4 |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8 | 100±15 | 25.0 |
|  |              |                                |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|  |              |                                |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9 | 100±15 | 23.6 |
|  |              |                                |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.4 | 19.0 | 24.8 | 100±15 | 21.5 |

Rip Cord

†3000 ft. put-up available in Natural or Blue only.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • FEP Teflon Insulation • Fluorescent Pink Flamarrest Jacket**

|  |                         |                                |   |      |       |      |      |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|--|-------------------------|--------------------------------|---|------|-------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
|  | <b>DataBrite® 1585B</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | 1000 | 304.8 | 24.0 | 10.9 | .007 | .18 | .200 | 5.08 | 9.38 | 3.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8 | 100±15 | 20.0 |
|  |                         |                                |   |      |       |      |      |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7 | 100±15 | 23.0 |
|  |                         |                                |   |      |       |      |      |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8 | 100±15 | 25.0 |
|  |                         |                                |   |      |       |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|  |                         |                                |   |      |       |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9 | 100±15 | 23.6 |
|  |                         |                                |   |      |       |      |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.4 | 19.0 | 24.8 | 100±15 | 21.5 |

Rip Cord

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • FEP Teflon Insulation • FEP Jacket** (Available in Blue or White)

|  |                                       |                                                                       |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|--|---------------------------------------|-----------------------------------------------------------------------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
|  | <b>1585LC**</b><br><small>new</small> | NEC:<br>Limited<br>Combustible<br>FHC 25/50<br>CMP<br>CEC:<br>CMP FT6 | 4 | U-1000 | U-304.8 | 23.0 | 10.5 | .007 | .18 | .184 | 4.67 | 9.38 | 3.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8 | 100±15 | 20.0 |
|  |                                       |                                                                       |   | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7 | 100±15 | 23.0 |
|  |                                       |                                                                       |   |        |         |      |      |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8 | 100±15 | 25.0 |
|  |                                       |                                                                       |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|  |                                       |                                                                       |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9 | 100±15 | 23.6 |
|  |                                       |                                                                       |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.4 | 19.0 | 24.8 | 100±15 | 21.5 |

\*\*1585LC does not have a rip cord.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 5e**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

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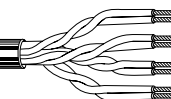
**DataTwist® 5e UTP Patch Cable**

TIA/EIA-568-B.2, Category 5e Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                      |                                         |                                 |                    |

**24 AWG** Stranded (7x32) Bare Copper • Twisted Pairs • RJ-45 Compatible\* • See Color Code Chart (below)

| Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Violet, Light Gray, White or Black) |                            |        |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |   |      |        |      |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|---|------|--------|------|
|                                                    | <b>1592A</b><br><b>new</b> | NEC:   | 4 | U-1000 | U-304.8 | 23.0 | 10.5 | .008 | .20 | .210 | 5.33 | 9.38 | 3.0 | 330 | 1     | 2.5  | 62.3 | — | 60.8 | 100±15 | 20.0 |
|                                                                                                                                     |                            | CM     |   | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |      |      |     |     | 4     | 4.9  | 53.3 | — | 48.7 | 100±15 | 23.0 |
|                                                                                                                                     |                            | CEC:   |   |        |         |      |      |      |     |      |      |      |     |     | 10    | 7.8  | 47.3 | — | 40.8 | 100±15 | 25.0 |
|                                                                                                                                     |                            | CM FT1 |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 9.9  | 44.3 | — | 36.7 | 100±15 | 25.0 |
|                                                                                                                                     |                            |        |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 14.1 | 39.9 | — | 30.9 | 100±15 | 23.6 |
|                                                                                                                                     |                            |        |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 20.4 | 35.4 | — | 24.8 | 100±15 | 21.5 |
|                                                                                                                                     |                            |        |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 26.4 | 32.3 | — | 20.8 | 100±15 | 20.1 |
|                                                                                                                                     |                            |        |   |        |         |      |      |      |     |      |      |      |     |     | 200   | 38.9 | 27.8 | — | 15.0 | 100±25 | 15.0 |

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

\*RJ-45 compatible for either T568-A or T568-B configurations.

**Color Codes: DataTwist 5e**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



**DataTwist® 5 UTP Cable**

TIA/EIA-568-B.2, Category 5 Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Fitted<br>Input<br>Imped.<br>( $\Omega$ ) | Min.<br>SRL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|-------------------------------------------|---------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                           |                     |

**24 AWG** Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Light Gray or Blue)

|  |              |                                |    |      |       |       |      |      |     |      |       |      |     |     |       |      |      |        |      |
|--|--------------|--------------------------------|----|------|-------|-------|------|------|-----|------|-------|------|-----|-----|-------|------|------|--------|------|
|  | <b>1864A</b> | NEC:<br>CMR<br>CEC:<br>CMR FT4 | 25 | 1000 | 304.8 | 141.0 | 64.1 | .009 | .23 | .556 | 14.12 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 100±15 | 23.0 |
|  |              |                                |    |      |       |       |      |      |     |      |       |      |     |     | 10    | 6.5  | 47.3 | 100±15 | 23.0 |
|  |              |                                |    |      |       |       |      |      |     |      |       |      |     |     | 16    | 8.2  | 44.3 | 100±15 | 23.0 |
|  |              |                                |    |      |       |       |      |      |     |      |       |      |     |     | 31.25 | 11.7 | 39.9 | 100±15 | 21.1 |
|  |              |                                |    |      |       |       |      |      |     |      |       |      |     |     | 62.5  | 17.0 | 35.4 | 100±15 | 18.0 |
|  |              |                                |    |      |       |       |      |      |     |      |       |      |     |     | 100   | 22.0 | 32.3 | 100±15 | 16.0 |

Rip Cord

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5**Plenum • FEP Teflon® Insulation • FEP Jacket** (Available in Blue Tint or White Tint)

|  |                                    |             |    |      |       |       |      |      |     |      |       |      |     |     |       |      |      |        |      |
|--|------------------------------------|-------------|----|------|-------|-------|------|------|-----|------|-------|------|-----|-----|-------|------|------|--------|------|
|  | <b>1871A</b><br><small>new</small> | NEC:<br>CMP | 25 | 1000 | 304.8 | 132.0 | 60.0 | .008 | .20 | .435 | 11.05 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 100±15 | 23.0 |
|  |                                    |             |    |      |       |       |      |      |     |      |       |      |     |     | 10    | 6.5  | 47.3 | 100±15 | 23.0 |
|  |                                    |             |    |      |       |       |      |      |     |      |       |      |     |     | 16    | 8.2  | 44.3 | 100±15 | 23.0 |
|  |                                    |             |    |      |       |       |      |      |     |      |       |      |     |     | 31.25 | 11.7 | 39.9 | 100±15 | 21.1 |
|  |                                    |             |    |      |       |       |      |      |     |      |       |      |     |     | 62.5  | 17.0 | 35.4 | 100±15 | 18.0 |
|  |                                    |             |    |      |       |       |      |      |     |      |       |      |     |     | 100   | 22.0 | 32.3 | 100±15 | 16.0 |

Rip Cord

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • SRL = Structural Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 5**

| Pair No. | Color Combination | Pair No. | Color Combination |
|----------|-------------------|----------|-------------------|
| 1        | White & Blue      | 14       | Black & Brown     |
| 2        | White & Orange    | 15       | Black & Gray      |
| 3        | White & Green     | 16       | Yellow & Blue     |
| 4        | White & Brown     | 17       | Yellow & Orange   |
| 5        | White & Gray      | 18       | Yellow & Green    |
| 6        | Red & Blue        | 19       | Yellow & Brown    |
| 7        | Red & Orange      | 20       | Yellow & Gray     |
| 8        | Red & Green       | 21       | Purple & Blue     |
| 9        | Red & Brown       | 22       | Purple & Orange   |
| 10       | Red & Gray        | 23       | Purple & Green    |
| 11       | Black & Blue      | 24       | Purple & Brown    |
| 12       | Black & Orange    | 25       | Purple & Gray     |
| 13       | Black & Green     |          |                   |

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**DataTwist® 3 UTP Cable**

TIA/EIA-568-B.2, Category 3 Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Nominal<br>DCR<br>(Cond.) | Nom.<br>Imped.<br>(Ω) | Nominal<br>Capacitance |           | Freq.<br>(MHz) | Min.<br>NEXT<br>(dB) | Maximum<br>Attenuation |               |
|-------------|----------|------------------------------|--------------------|------------------|---|-------------------------|----|-------------------------|----|---------------|----|---------------------------|-----------------------|------------------------|-----------|----------------|----------------------|------------------------|---------------|
|             |          |                              |                    | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch          | mm |                           |                       | *<br>pF/Ft.            | *<br>pF/m |                |                      | (dB/<br>1000')         | (dB/<br>100m) |

**24 AWG Solid Bare Copper • Twisted Pairs • See Color Code Chart (below)****Non-Plenum • Semi-rigid PVC Insulation • Gray PVC Jacket**

|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|--|---------------|-------------|-----|--------|---------|-------|------|------|-----|------|------|----------------------|-----|------|------|----|------|------|-------|
|  | <b>1227A1</b> | NEC:<br>CMR | 2   | U-1000 | U-304.8 | 14.0  | 6.4  | .007 | .18 | .170 | 4.32 | 28.0Ω/M'<br>91.8Ω/km | 100 | 19.0 | 62.3 | 1  | 41.0 | 7.8  | 2.56  |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      | 4  | 32.0 | 17.0 | 5.58  |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      | 10 | 26.0 | 30.0 | 9.71  |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      | 16 | 23.0 | 40.0 | 13.10 |
|  | <b>1229A1</b> | NEC:<br>CMR | 4   | U-1000 | U-304.8 | 22.0  | 10.0 | .006 | .15 | .200 | 5.08 |                      |     |      |      |    |      |      |       |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|  | <b>1232A1</b> | NEC:<br>CMR | 25† | 1000   | 304.8   | 102.0 | 46.4 | .006 | .15 | .390 | 9.91 |                      |     |      |      |    |      |      |       |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|  |               |             |     |        |         |       |      |      |     |      |      |                      |     |      |      |    |      |      |       |

NEC Article 800

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 3

**Plenum • Low-Smoke PVC Insulation • White Low-Smoke PVC Jacket**

|  |               |             |   |        |         |      |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|--|---------------|-------------|---|--------|---------|------|------|------|-----|------|------|----------------------|-----|------|------|----|------|------|-------|
|  | <b>1243A2</b> | NEC:<br>CMP | 2 | U-1000 | U-304.8 | 12.0 | 5.5  | .007 | .18 | .160 | 4.06 | 28.0Ω/M'<br>91.8Ω/km | 100 | 19.0 | 62.3 | 1  | 41.0 | 7.8  | 2.56  |
|  |               |             |   |        |         |      |      |      |     |      |      |                      |     |      |      | 4  | 32.0 | 17.0 | 5.58  |
|  |               |             |   |        |         |      |      |      |     |      |      |                      |     |      |      | 10 | 26.0 | 30.0 | 9.71  |
|  |               |             |   |        |         |      |      |      |     |      |      |                      |     |      |      | 16 | 23.0 | 40.0 | 13.10 |
|  | <b>1245A2</b> | NEC:<br>CMP | 4 | U-1000 | U-304.8 | 22.0 | 10.0 | .007 | .18 | .190 | 4.83 |                      |     |      |      |    |      |      |       |
|  |               |             |   |        |         |      |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|  |               |             |   |        |         |      |      |      |     |      |      |                      |     |      |      |    |      |      |       |
|  |               |             |   |        |         |      |      |      |     |      |      |                      |     |      |      |    |      |      |       |

NEC Article 800

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 3

DCR = DC Resistance • NEXT = Near-end Crosstalk • UTP = Unshielded Twisted Pair(s)

\*Capacitance between conductors

† 25-pair NEXT is Power Sum tested.

**Color Codes: DataTwist 3**

| Pair No. | Color Combination                         |
|----------|-------------------------------------------|
| 1        | White/Blue Stripe & Blue/White Stripe     |
| 2        | White/Orange Stripe & Orange/White Stripe |
| 3        | White/Green Stripe & Green/White Stripe   |
| 4        | White/Brown Stripe & Brown/White Stripe   |
| 5        | White/Gray Stripe & Gray/White Stripe     |
| 6        | Red/Blue Stripe & Blue/Red Stripe         |
| 7        | Red/Orange Stripe & Orange/Red Stripe     |
| 8        | Red/Green Stripe & Green/Red Stripe       |
| 9        | Red/Brown Stripe & Brown/Red Stripe       |
| 10       | Red/Gray Stripe & Gray/Red Stripe         |
| 11       | Black/Blue Stripe & Blue/Black Stripe     |
| 12       | Black/Orange Stripe & Orange/Black Stripe |
| 13       | Black/Green Stripe & Green/Black Stripe   |

| Pair No. | Color Combination                           |
|----------|---------------------------------------------|
| 14       | Black/Brown Stripe & Brown/Black Stripe     |
| 15       | Black/Gray Stripe & Gray/Black Stripe       |
| 16       | Yellow/Blue Stripe & Blue/Yellow Stripe     |
| 17       | Yellow/Orange Stripe & Orange/Yellow Stripe |
| 18       | Yellow/Green Stripe & Green/Yellow Stripe   |
| 19       | Yellow/Brown Stripe & Brown/Yellow Stripe   |
| 20       | Yellow/Gray Stripe & Gray/Yellow Stripe     |
| 21       | Purple/Blue Stripe & Blue/Purple Stripe     |
| 22       | Purple/Orange Stripe & Orange/Purple Stripe |
| 23       | Purple/Green Stripe & Green/Purple Stripe   |
| 24       | Purple/Brown Stripe & Brown/Purple Stripe   |
| 25       | Purple/Gray Stripe & Gray/Purple Stripe     |



**DataTwist® 5e ScTP Cable**

TIA/EIA-568-B.2, Category 5e Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>(Ω/<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>(Ω) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|-----------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                             |                              |                                         |                |                                 |                              |                                      |                                         |                        |                    |

**24 AWG Solid Bare Copper • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire\* • RJ-45 Compatible • See Color Code Chart (below)****Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue or Light Gray)

|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |    |      |        |      |
|--|------------------------------------|--------------------------------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|----|------|--------|------|
|  | <b>1533R</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMR FT4 | 4 | 1000   | 304.8   | 34.0 | 15.5 | .010 | .25 | .260 | 6.60 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 60 | 60.8 | 100±15 | 20.0 |
|  |                                    |                                |   | A-1000 | A-304.8 | 35.0 | 15.9 |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49 | 48.7 | 100±15 | 23.0 |
|  |                                    |                                |   | 1640†  | 500.0   | 49.2 | 22.4 |      |     |      |      |      |     |     | 8     | 5.8  | 48.8 | 43 | 42.7 | 100±15 | 24.5 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41 | 40.8 | 100±15 | 25.0 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36 | 36.7 | 100±15 | 25.0 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 20    | 9.3  | 42.8 | 34 | 34.7 | 100±15 | 25.0 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 25    | 10.4 | 41.3 | 31 | 32.8 | 100±15 | 24.3 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28 | 30.9 | 100±15 | 23.6 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 65.5  | 17.0 | 35.4 | 19 | 24.8 | 100±15 | 21.5 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.3 | 11 | 20.8 | 100±15 | 20.1 |

†1640 ft. put-up available in Light Gray only.

Shield is bonded to jacket inner wall for electrical stability.

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Red, Orange, Yellow, Green, Blue, Gray or Natural)

|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |    |      |        |      |
|--|------------------------------------|--------------------------------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|----|------|--------|------|
|  | <b>1533P</b><br><small>new</small> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | 1000   | 304.8   | 34.0 | 15.5 | .010 | .25 | .242 | 6.15 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 60 | 60.8 | 100±15 | 20.0 |
|  |                                    |                                |   | A-1000 | A-304.8 | 36.0 | 16.4 |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49 | 48.7 | 100±15 | 23.0 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 8     | 5.8  | 48.8 | 43 | 42.7 | 100±15 | 24.5 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41 | 40.8 | 100±15 | 25.0 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36 | 36.7 | 100±15 | 25.0 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 20    | 9.3  | 42.8 | 34 | 34.7 | 100±15 | 25.0 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 25    | 10.4 | 41.3 | 31 | 32.8 | 100±15 | 24.3 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28 | 30.9 | 100±15 | 23.6 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 65.5  | 17.0 | 35.4 | 19 | 24.8 | 100±15 | 21.5 |
|  |                                    |                                |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.3 | 11 | 20.8 | 100±15 | 20.1 |

Shield is bonded to jacket inner wall for electrical stability.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss

ScTP = Screened (Overall Foil) Twisted Pair(s)

\*Drain wire is 24 AWG stranded tinned copper.

**Color Codes: DataTwist 5e**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

Teflon is a DuPont trademark.



By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

**DataTwist® 5 ScTP Cable**

TIA/EIA-568-B.2, Category 5 Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>SRL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|---------------------------------|---------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                 |                     |

**24 AWG Solid Bare Copper • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire\* • RJ-45 Compatible • See Color Code Chart (below)****Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue, Purple or Light Gray)

|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |        |      |
|--|--------------|---------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|--------|------|
|  | <b>1624R</b> | NEC:    | 4 | 1000   | 304.8   | 34.0 | 15.5 | .011 | .27 | .250 | 6.35 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.0 | 100±15 | 23.0 |
|  |              | CMR     |   | A-1000 | A-304.8 | 35.0 | 15.9 |      |     |      |      |      |     |     | 4     | 4.1  | 53.0 | 100±15 | 23.0 |
|  |              | CEC:    |   | 1640†  | 500.0   | 54.1 | 24.7 |      |     |      |      |      |     |     | 8     | 5.8  | 48.0 | 100±15 | 23.0 |
|  |              | CMR FT4 |   |        |         |      |      |      |     |      |      |      |     |     | 10    | 6.5  | 47.0 | 100±15 | 23.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.0 | 100±15 | 23.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 20    | 9.3  | 42.0 | 100±15 | 23.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 25    | 10.4 | 41.0 | 100±15 | 22.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 40.0 | 100±15 | 21.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 65.5  | 17.0 | 35.0 | 100±15 | 18.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.0 | 100±15 | 16.0 |

†1640 ft. put-up available in Light Gray only.

Shield is bonded to jacket inner wall for electrical stability.

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural)

|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |        |      |
|--|--------------|---------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|--------|------|
|  | <b>1624P</b> | NEC:    | 4 | 1000   | 304.8   | 34.0 | 15.5 | .011 | .27 | .235 | 5.97 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.0 | 100±15 | 23.0 |
|  |              | CMP     |   | A-1000 | A-304.8 | 36.0 | 16.4 |      |     |      |      |      |     |     | 4     | 4.1  | 53.0 | 100±15 | 23.0 |
|  |              | CEC:    |   |        |         |      |      |      |     |      |      |      |     |     | 8     | 5.8  | 48.0 | 100±15 | 23.0 |
|  |              | CMP FT6 |   |        |         |      |      |      |     |      |      |      |     |     | 10    | 6.5  | 47.0 | 100±15 | 23.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.0 | 100±15 | 23.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 20    | 9.3  | 42.0 | 100±15 | 23.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 25    | 10.4 | 41.0 | 100±15 | 22.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 40.0 | 100±15 | 21.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 65.5  | 17.0 | 35.0 | 100±15 | 18.0 |
|  |              |         |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.0 | 100±15 | 16.0 |

Shield is bonded to jacket inner wall for electrical stability.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

\*Drain wire is 24 AWG stranded tinned copper.

**Color Codes: DataTwist 5**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

Teflon is a DuPont trademark.

**DataTwist® 5 ScTP Cable**

TIA/EIA-568-TSB 36, Category 5 Unbonded-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>NEXT<br>(dB) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|----------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                      |                                 |                    |

**24 AWG Solid Bare Copper • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire\* • Rip Cord • See Color Code Chart (below)****Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Light Gray or Blue)**

|  |              |      |   |        |         |       |      |      |     |      |      |      |     |     |       |      |      |        |     |
|--|--------------|------|---|--------|---------|-------|------|------|-----|------|------|------|-----|-----|-------|------|------|--------|-----|
|  | <b>1633A</b> | NEC: | 4 | U-1000 | U-304.8 | 31.0  | 14.1 | .012 | .31 | .260 | 6.60 | 9.38 | 5.0 | 330 | 4     | 4.1  | 53.0 | 100±15 | N/A |
|  |              | CM   |   | 1000   | 304.8   | 32.0  | 14.5 |      |     |      |      |      |     |     | 10    | 6.5  | 47.0 | 100±15 | N/A |
|  |              | CEC: |   | 1640   | 500.0   | 49.2  | 22.4 |      |     |      |      |      |     |     | 16    | 8.2  | 44.0 | 100±15 | N/A |
|  |              | CM   |   | 3280†  | 1000.0  | 101.7 | 46.2 |      |     |      |      |      |     |     | 31.25 | 11.7 | 40.0 | 100±15 | N/A |
|  |              |      |   |        |         |       |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.0 | 100±15 | N/A |
|  |              |      |   |        |         |       |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.0 | 100±15 | N/A |

Rip Cord

†3280 ft. put-up available in Light Gray only.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-TSB 36, Category 5

**Non-Plenum • Dual • Polyolefin Insulation • Gray PVC Jacket with Polarity Rib**

|  |              |      |     |      |       |       |      |      |     |      |       |      |     |     |       |      |      |        |     |
|--|--------------|------|-----|------|-------|-------|------|------|-----|------|-------|------|-----|-----|-------|------|------|--------|-----|
|  | <b>1668A</b> | NEC: | 2x4 | 1000 | 304.8 | 70.0  | 31.8 | .012 | .31 | .518 | 13.16 | 9.38 | 5.0 | 330 | 4     | 4.1  | 53.0 | 100±15 | N/A |
|  |              | CM   |     | 1640 | 500.0 | 109.9 | 49.9 |      |     | x    | x     |      |     |     | 10    | 6.5  | 47.0 | 100±15 | N/A |
|  |              | CEC: |     |      |       |       |      |      |     | .254 | 6.45  |      |     |     | 16    | 8.2  | 44.0 | 100±15 | N/A |
|  |              | CM   |     |      |       |       |      |      |     |      |       |      |     |     | 31.25 | 11.7 | 40.0 | 100±15 | N/A |
|  |              |      |     |      |       |       |      |      |     |      |       |      |     |     | 62.5  | 17.0 | 35.0 | 100±15 | N/A |
|  |              |      |     |      |       |       |      |      |     |      |       |      |     |     | 100   | 22.0 | 32.0 | 100±15 | N/A |

Rip Cord

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-TSB 36, Category 5 (Leg 1 &amp; 2)

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

\*Drain wire is 24 AWG stranded tinned copper.

**Color Codes: DataTwist 5**

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



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**IEEE 802.3 • ISO/IEC 8802.3 10Base2 and 10Base5**

Trunk Cables — Thinnet and Thicknet



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**Thinnet 10Base2 • 20 AWG Stranded (19x32) .037" Tinned Copper Conductor • Duobond® II + 93% Tinned Copper Braid Shield**

| Non-Plenum • Ethernet • Foam Polyethylene Insulation • Gray PVC Jacket            |      |         |        |         |      |      |         |      |      |            |      |      |    |     |      |      |     |      |       |       |
|-----------------------------------------------------------------------------------|------|---------|--------|---------|------|------|---------|------|------|------------|------|------|----|-----|------|------|-----|------|-------|-------|
| UL AWM                                                                            | 9907 | NEC:    | 500    | 152.4   | 12.5 | 5.7  | 20 AWG  | .102 | 2.59 | Duobond II | .185 | 4.70 | 50 | 80% | 25.4 | 83.3 | 1   | .43  | 1.4   |       |
| Style 1354                                                                        |      | CL2, CM | U-1000 | U-304.8 | 25.0 | 11.4 | (19x32) |      |      | + 93%      |      |      |    |     |      |      | 10  | 1.30 | 4.3   |       |
| (30V 80°C)                                                                        |      | CEC:    | 1000   | 304.8   | 25.0 | 11.4 | .037"   |      |      | Tinned     |      |      |    |     |      |      | 50  | 2.90 | 9.5   |       |
|  |      | CM      | 1640   | 500.0   | 39.4 | 17.9 | Tinned  |      |      | Copper     |      |      |    |     |      |      | 100 | 4.20 | 13.8  |       |
|                                                                                   |      |         | U-2500 | U-762.0 | 60.0 | 27.3 | Copper  |      |      | Braid      |      |      |    |     |      |      | 200 | 6.10 | 20.0  |       |
|                                                                                   |      |         | 2500   | 762.0   | 62.5 | 28.4 | 8.8Ω/M' |      |      | 5.8Ω/M'    |      |      |    |     |      |      | 400 | 8.90 | 29.2  |       |
|                                                                                   |      |         |        |         |      |      |         |      |      |            |      |      |    |     |      |      |     |      | 700   | 12.10 |
|                                                                                   |      |         |        |         |      |      |         |      |      |            |      |      |    |     |      |      |     | 900  | 13.90 | 45.6  |
|                                                                                   |      |         |        |         |      |      |         |      |      |            |      |      |    |     |      |      |     | 1000 | 14.80 | 48.6  |
| DEC Part No. 17-01248-00                                                          |      |         |        |         |      |      |         |      |      |            |      |      |    |     |      |      |     |      |       |       |

DEC Part No. 17-01248-00

For Plenum versions of 9907, see 89907 or 82907.

| Plenum Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket                |           |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      |      |       |      |
|-----------------------------------------------------------------------------------|-----------|-------|---------|--------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|-------|------|
|  | 150V 75°C | 82907 | NEC:    | 500†   | 152.4   | 12.5 | 5.7  | 20 AWG    | .095 | 2.41 | Duobond II | .160 | 4.06 | 50 | 80% | 25.4 | 83.3 | 1    | .43   | 1.4  |
|                                                                                   |           |       | CL2P,   | U-1000 | U-304.8 | 23.0 | 10.5 | (19x32)   |      |      | + 93%      |      |      |    |     |      |      | 10   | 1.30  | 4.3  |
|                                                                                   |           |       | CMP     | 1000†  | 304.8   | 24.0 | 10.9 | .037"     |      |      | Tinned     |      |      |    |     |      |      | 50   | 2.90  | 9.5  |
|                                                                                   |           |       | CEC:    | 2500†  | 762.0   | 57.5 | 26.1 | Tinned    |      |      | Copper     |      |      |    |     |      |      | 100  | 4.20  | 13.8 |
|                                                                                   |           |       | CMP FT6 |        |         |      |      | Copper    |      |      | Braid      |      |      |    |     |      |      | 200  | 6.10  | 20.0 |
|                                                                                   |           |       |         |        |         |      |      | 8.8Ω/M'   |      |      | 5.8Ω/M'    |      |      |    |     |      |      | 400  | 9.20  | 30.2 |
|                                                                                   |           |       |         |        |         |      |      | 28.9Ω/km' |      |      | 19.0Ω/km   |      |      |    |     |      |      | 700  | 12.90 | 42.3 |
|                                                                                   |           |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 15.00 | 49.2 |
|                                                                                   |           |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 16.00 | 52.5 |

| Plenum Ethernet • Foam FEP Insulation • Gray Fluorocopolymer Jacket               |        |         |       |       |      |      |         |          |      |            |      |      |    |     |      |      |     |       |      |      |       |      |
|-----------------------------------------------------------------------------------|--------|---------|-------|-------|------|------|---------|----------|------|------------|------|------|----|-----|------|------|-----|-------|------|------|-------|------|
| 150V 150°C                                                                        | 89907† | NEC:    | 500†  | 152.4 | 13.0 | 5.9  | 20 AWG  | .095     | 2.41 | Duobond II | .160 | 4.06 | 50 | 80% | 25.4 | 83.3 | 1   | .43   | 1.4  |      |       |      |
|  |        | CL2P,   | 1000† | 304.8 | 24.0 | 10.9 | (19x32) |          |      | + 93%      |      |      |    |     |      |      | 10  | 1.30  | 4.3  |      |       |      |
|                                                                                   |        | CMP     | 2500† | 762.0 | 60.0 | 27.3 | .037"   |          |      | Tinned     |      |      |    |     |      |      | 50  | 2.90  | 9.5  |      |       |      |
|                                                                                   |        | CEC:    |       |       |      |      |         | Tinned   |      | Copper     |      |      |    |     |      |      | 100 | 4.20  | 13.8 |      |       |      |
|                                                                                   |        | CMP FT6 |       |       |      |      |         | Copper   |      | Braid      |      |      |    |     |      |      | 200 | 6.10  | 20.0 |      |       |      |
|                                                                                   |        |         |       |       |      |      |         | 8.8Ω/M   |      | 5.8Ω/M†    |      |      |    |     |      |      | 400 | 9.20  | 30.2 |      |       |      |
|                                                                                   |        |         |       |       |      |      |         | 28.9Ω/km |      | 19.0Ω/km   |      |      |    |     |      |      | 700 | 12.90 | 42.3 |      |       |      |
| DEC Part No. 17-01246-00                                                          |        |         |       |       |      |      |         |          |      |            |      |      |    |     |      |      |     |       |      | 900  | 15.00 | 49.2 |
| Suitable for Outdoor and Direct Burial applications.                              |        |         |       |       |      |      |         |          |      |            |      |      |    |     |      |      |     |       |      | 1000 | 16.00 | 52.5 |

DEC Part No. 17-01246-00

Suitable for Outdoor and Direct Burial applications.

**Thicknet 10Base5 • 12 AWG Solid .086" Bare Copper Conductor • Duobond IV\* Quad Shield**

| Non-Plenum • Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket            |      |         |      |       |       |      |             |      |      |             |      |       |    |     |      |      |      |      |       |       |
|-------------------------------------------------------------------------------------|------|---------|------|-------|-------|------|-------------|------|------|-------------|------|-------|----|-----|------|------|------|------|-------|-------|
| UL AWM                                                                              | 9880 | NEC:    | 500  | 152.4 | 66.0  | 30.0 | 12 AWG      | .243 | 6.17 | Duobond IV  | .405 | 10.29 | 50 | 78% | 26.0 | 85.0 | 1    | .19  | .62   |       |
| Style 1478                                                                          |      | CL2, CM | 1000 | 304.8 | 131.0 | 59.5 | (solid)     |      |      | (Duobond II |      |       |    |     |      |      | 5    | .37  | 1.21  |       |
| (30V 60°C)                                                                          |      | CEC:    | 1640 | 500.0 | 219.8 | 99.9 | .086"       |      |      | + 94%       |      |       |    |     |      |      | 10   | .52  | 1.71  |       |
|  |      | CM      |      |       |       |      | Bare Copper |      |      | TC Braid    |      |       |    |     |      |      | 50   | 1.20 | 3.94  |       |
|                                                                                     |      |         |      |       |       |      | 1.42Ω/M'    |      |      | + Duofoil®  |      |       |    |     |      |      |      | 100  | 1.70  | 5.58  |
|                                                                                     |      |         |      |       |       |      | 4.66Ω/km    |      |      | + 90%       |      |       |    |     |      |      |      | 200  | 2.55  | 8.37  |
|                                                                                     |      |         |      |       |       |      |             |      |      |             |      |       |    |     |      |      |      | 400  | 3.90  | 12.80 |
|                                                                                     |      |         |      |       |       |      |             |      |      |             |      |       |    |     |      |      | 700  | 5.50 | 18.10 |       |
|                                                                                     |      |         |      |       |       |      |             |      |      |             |      |       |    |     |      |      | 900  | 6.50 | 21.30 |       |
|                                                                                     |      |         |      |       |       |      |             |      |      |             |      |       |    |     |      |      | 1000 | 6.90 | 22.60 |       |
| DEC Part No. 17-00451-00                                                            |      |         |      |       |       |      |             |      |      |             |      |       |    |     |      |      |      |      |       |       |
| Ring-band stripes marked every 2.5 meters to aid users in tap placement.            |      |         |      |       |       |      |             |      |      |             |      |       |    |     |      |      |      |      |       |       |

DEC Part No. 17-00451-00

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

| Plenum Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket               |       |         |       |       |       |       |             |      |      |             |      |      |    |     |      |      |     |      |       |      |      |       |
|-------------------------------------------------------------------------------------|-------|---------|-------|-------|-------|-------|-------------|------|------|-------------|------|------|----|-----|------|------|-----|------|-------|------|------|-------|
| 150°C                                                                               | 89880 | NEC:    | 500†  | 152.4 | 67.0  | 30.5  | 12 AWG      | .245 | 6.22 | Duobond IV  | .375 | 9.53 | 50 | 78% | 26.0 | 85.0 | 1   | .18  | .59   |      |      |       |
|  |       | CL2P,   | 1000† | 304.8 | 134.0 | 60.9  | (solid)     |      |      | (Duobond II |      |      |    |     |      |      | 5   | .37  | 1.21  |      |      |       |
|                                                                                     |       | CMP     | 1640† | 500.0 | 224.7 | 102.1 | .086"       |      |      | + 90%       |      |      |    |     |      |      | 10  | .52  | 1.71  |      |      |       |
|                                                                                     |       | CEC:    |       |       |       |       | Bare Copper |      |      | TC Braid    |      |      |    |     |      |      | 50  | 1.15 | 3.77  |      |      |       |
|                                                                                     |       | CMP FT6 |       |       |       |       | 1.42Ω/M'    |      |      | + Duofoil   |      |      |    |     |      |      | 100 | 1.65 | 5.41  |      |      |       |
|                                                                                     |       |         |       |       |       |       | 4.66Ω/km    |      |      | + 90%       |      |      |    |     |      |      | 200 | 2.45 | 8.04  |      |      |       |
|                                                                                     |       |         |       |       |       |       |             |      |      | TC Braid)   |      |      |    |     |      |      | 400 | 3.80 | 12.50 |      |      |       |
| DEC Part No. 17-00324-00                                                            |       |         |       |       |       |       |             |      |      |             |      |      |    |     |      |      |     |      |       | 700  | 5.60 | 18.40 |
| Suitable for Outdoor and Direct Burial applications.                                |       |         |       |       |       |       |             |      |      |             |      |      |    |     |      |      |     |      |       | 900  | 6.80 | 22.30 |
| Ring-band stripes marked every 2.5 meters to aid users in tap placement.            |       |         |       |       |       |       |             |      |      |             |      |      |    |     |      |      |     |      |       | 1000 | 7.20 | 23.60 |
|                                                                                     |       |         |       |       |       |       |             |      |      |             |      |      |    |     |      |      |     |      |       |      |      |       |

DEC Part No. 17-00324-00

Suitable for Outdoor and Direct Burial applications.

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

DCR = DC Resistance • TC = Tinned Copper

\* Duobond IV = Duobond II + 94% tinned copper braid + Duofoil® + 90% tinned copper braid.  
(Plenum version is Duobond II + 90% tinned copper braid + Duofoil + 90% tinned copper braid.)

† Spools are one piece, but length may vary ±10% from length shown.

**IEEE 802.3 • ISO/IEC 8802.3 10Base5**

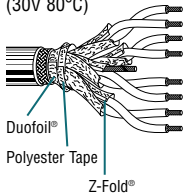
## Transceiver Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Wt. |    | Conductor<br>(stranding)<br>Nom. DCR | Shielding<br>Materials<br>Nom. DCR | Nominal<br>OD |    | Drain<br>Wire | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |           |              |            |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|----------------------|----|--------------------------------------|------------------------------------|---------------|----|---------------|------------------------------|-----------------------------|---------------------|-----------|--------------|------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                 | kg |                                      |                                    | Inch          | mm |               |                              |                             | *<br>pF/Ft.         | *<br>pF/m | **<br>pF/Ft. | **<br>pF/m |

**28 and 24 AWG Stranded Tinned Copper • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil® + TC Braid Shield • Drain Wire****Non-Plenum • Polypropylene Insulation • Light Gray PVC Jacket**

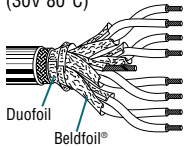
|                                    |             |                                        |   |                                                           |             |                |              |             |                                                                                                                                                                                                                   |                                                                                                                           |              |                                           |     |     |      |      |      |       |
|------------------------------------|-------------|----------------------------------------|---|-----------------------------------------------------------|-------------|----------------|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------|-----|-----|------|------|------|-------|
| UL AWM<br>Style 2919<br>(30V 80°C) | <b>9903</b> | NEC:<br>CL2,<br>CMG<br>CEC:<br>CMG FT4 | 4 | Gray/White,<br>Yellow/Orange,<br>Green/Blue,<br>Black/Red | 500<br>1000 | 152.4<br>304.8 | 21.5<br>43.0 | 9.8<br>19.5 | 3 Pair:<br>28 AWG<br>(7x36)<br>TC<br>65.0 $\Omega$ /M'<br>213.0 $\Omega$ /km<br>1 Pair:<br>24 AWG<br>(7x32)<br>TC<br>24.0 $\Omega$ /M'<br>78.7 $\Omega$ /km<br>Each Pair<br>Individually<br>Beldfoil®<br>Shielded | Polyester<br>Isolation<br>Tape<br>+ Duofoil<br>+ 92%<br>Tinned<br>Copper<br>Braid<br>2.9 $\Omega$ /M'<br>9.5 $\Omega$ /km | .250<br>6.35 | 24<br>AWG<br>Stranded<br>Tinned<br>Copper | 78* | 66% | 19.7 | 64.6 | 34.8 | 114.2 |
|------------------------------------|-------------|----------------------------------------|---|-----------------------------------------------------------|-------------|----------------|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------|-----|-----|------|------|------|-------|



\*3 Pairs

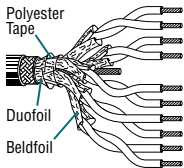
**20 AWG Stranded (7x28) Tinned Copper • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil + TC Braid Shield • Drain Wire****Non-Plenum • Datalene® Insulation • Light Gray PVC Jacket**

|                                    |             |                               |   |                                                           |             |                |               |              |                                                                                                                                     |                                                                                                                           |               |                                           |    |     |      |      |      |      |
|------------------------------------|-------------|-------------------------------|---|-----------------------------------------------------------|-------------|----------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------|----|-----|------|------|------|------|
| UL AWM<br>Style 2919<br>(30V 80°C) | <b>9901</b> | NEC:<br>CL2, CM<br>CEC:<br>CM | 4 | Gray/White,<br>Yellow/Orange,<br>Blue/Green,<br>Red/Black | 500<br>1000 | 152.4<br>304.8 | 53.5<br>106.0 | 24.3<br>48.2 | 20 AWG<br>(7x28)<br>Tinned<br>Copper<br>Each Pair<br>Individually<br>Beldfoil<br>Shielded<br>10.5 $\Omega$ /M'<br>34.4 $\Omega$ /km | Polyester<br>Isolation<br>Tape<br>+ Duofoil<br>+ 95%<br>Tinned<br>Copper<br>Braid<br>2.0 $\Omega$ /M'<br>6.6 $\Omega$ /km | .415<br>10.54 | 22<br>AWG<br>Stranded<br>Tinned<br>Copper | 78 | 78% | 16.7 | 54.8 | 29.5 | 96.8 |
|------------------------------------|-------------|-------------------------------|---|-----------------------------------------------------------|-------------|----------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------|----|-----|------|------|------|------|

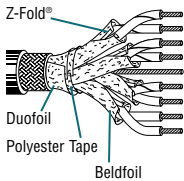
For Plenum version of 9901,  
see 89901.

DEC Part No. 17-01320-00

|                                    |             |                               |   |                                                                         |             |                |               |              |                                                                                                                                     |                                                                                                                            |               |                                           |    |     |      |      |      |      |
|------------------------------------|-------------|-------------------------------|---|-------------------------------------------------------------------------|-------------|----------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------|----|-----|------|------|------|------|
| UL AWM<br>Style 2919<br>(30V 80°C) | <b>9902</b> | NEC:<br>CL2, CM<br>CEC:<br>CM | 5 | Gray/White,<br>Yellow/Orange,<br>Blue/Green,<br>Red/Brown,<br>Red/Black | 500<br>1000 | 152.4<br>304.8 | 76.5<br>145.0 | 34.8<br>65.9 | 20 AWG<br>(7x28)<br>Tinned<br>Copper<br>Each Pair<br>Individually<br>Beldfoil<br>Shielded<br>10.5 $\Omega$ /M'<br>34.4 $\Omega$ /km | Polyester<br>Isolation<br>Tape<br>+ Duofoil<br>+ 95%<br>Tinned<br>Copper<br>Braid<br>1.65 $\Omega$ /M'<br>5.4 $\Omega$ /km | .500<br>12.70 | 20<br>AWG<br>Stranded<br>Tinned<br>Copper | 78 | 78% | 16.7 | 54.8 | 29.5 | 96.8 |
|------------------------------------|-------------|-------------------------------|---|-------------------------------------------------------------------------|-------------|----------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------|----|-----|------|------|------|------|

**Plenum • FEP Teflon® Insulation† • Light Gray Fluorocopolymer (PVDF) Jacket**

|       |              |                                |   |                                                           |               |                |               |              |                                                                                                                                     |                                                                                                                           |              |                                           |    |     |      |      |      |      |
|-------|--------------|--------------------------------|---|-----------------------------------------------------------|---------------|----------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------|----|-----|------|------|------|------|
| 150°C | <b>89901</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 4 | Gray/White,<br>Yellow/Orange,<br>Blue/Green,<br>Red/Black | 500†<br>1000† | 152.4<br>304.8 | 51.5<br>104.0 | 23.4<br>47.3 | 20 AWG<br>(7x28)<br>Tinned<br>Copper<br>Each Pair<br>Individually<br>Beldfoil<br>Shielded<br>10.5 $\Omega$ /M'<br>34.4 $\Omega$ /km | Polyester<br>Isolation<br>Tape<br>+ Duofoil<br>+ 95%<br>Tinned<br>Copper<br>Braid<br>1.5 $\Omega$ /M'<br>4.9 $\Omega$ /km | .370<br>9.40 | 22<br>AWG<br>Stranded<br>Tinned<br>Copper | 78 | 78% | 16.7 | 54.8 | 29.5 | 96.8 |
|-------|--------------|--------------------------------|---|-----------------------------------------------------------|---------------|----------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------|----|-----|------|------|------|------|



†Foam FEP (data pairs) and solid FEP (power pair).

DEC Part No. 17-01319-00

Suitable for Outdoor and Direct Burial applications.

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

Teflon is a DuPont trademark.

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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

**IEEE 802.4 MAP & Mini-MAP • IEEE 802.7****Broadband Coaxial Cables**

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel • Duobond® IV\* Quad Shield**

| Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket |              |                                         |                   |       |      |      |                   |      |      |                                                  |      |      |    |     |      |      |     |      |      |
|-------------------------------------------------------------|--------------|-----------------------------------------|-------------------|-------|------|------|-------------------|------|------|--------------------------------------------------|------|------|----|-----|------|------|-----|------|------|
|                                                             | <b>3131A</b> | NEC:<br>CL2R,<br>CMR<br>CEC:<br>CMR FT4 | 1000 <sup>†</sup> | 304.8 | 41.0 | 18.6 | 18 AWG<br>(solid) | .180 | 4.57 | Duobond IV<br>Quad Shield<br>3.6Ω/M'<br>11.8Ω/km | .298 | 7.57 | 75 | 82% | 16.2 | 53.1 | 1   | .35  | 1.2  |
|                                                             |              |                                         | 2500              | 762.2 | 97.5 | 44.3 |                   |      |      |                                                  |      |      |    |     |      |      | 2   | .38  | 1.3  |
|                                                             |              |                                         |                   |       |      |      | .040"             |      |      |                                                  |      |      |    |     |      |      | 5   | .45  | 1.5  |
|                                                             |              |                                         |                   |       |      |      | Bare Copper       |      |      |                                                  |      |      |    |     |      |      | 10  | .59  | 1.9  |
|                                                             |              |                                         |                   |       |      |      | Covered           |      |      |                                                  |      |      |    |     |      |      | 20  | .86  | 2.8  |
|                                                             |              |                                         |                   |       |      |      | Steel             |      |      |                                                  |      |      |    |     |      |      | 50  | 1.37 | 4.5  |
|                                                             |              |                                         |                   |       |      |      | 28.0Ω/M'          |      |      |                                                  |      |      |    |     |      |      | 100 | 1.97 | 6.5  |
|                                                             |              |                                         |                   |       |      |      | 91.8Ω/km          |      |      |                                                  |      |      |    |     |      |      | 200 | 2.82 | 9.3  |
|                                                             |              |                                         |                   |       |      |      |                   |      |      |                                                  |      |      |    |     |      |      | 300 | 3.48 | 11.4 |
|                                                             |              |                                         |                   |       |      |      |                   |      |      |                                                  |      |      |    |     |      |      | 400 | 4.04 | 13.3 |

Tap marks every 2.6 meters to aid users in installation.

| Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket |              |                                |                   |       |      |      |                   |      |      |                                                  |      |      |    |     |      |      |     |      |      |
|------------------------------------------------------------|--------------|--------------------------------|-------------------|-------|------|------|-------------------|------|------|--------------------------------------------------|------|------|----|-----|------|------|-----|------|------|
|                                                            | <b>3132A</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1000 <sup>†</sup> | 304.8 | 36.0 | 16.4 | 18 AWG<br>(solid) | .170 | 4.32 | Duobond IV<br>Quad Shield<br>3.6Ω/M'<br>11.8Ω/km | .274 | 6.96 | 75 | 82% | 16.3 | 53.5 | 1   | .36  | 1.2  |
|                                                            |              |                                |                   |       |      |      |                   |      |      |                                                  |      |      |    |     |      |      | 2   | .38  | 1.3  |
|                                                            |              |                                |                   |       |      |      | .040"             |      |      |                                                  |      |      |    |     |      |      | 5   | .50  | 1.6  |
|                                                            |              |                                |                   |       |      |      | Bare Copper       |      |      |                                                  |      |      |    |     |      |      | 10  | .65  | 2.1  |
|                                                            |              |                                |                   |       |      |      | Covered           |      |      |                                                  |      |      |    |     |      |      | 20  | .95  | 3.1  |
|                                                            |              |                                |                   |       |      |      | Steel             |      |      |                                                  |      |      |    |     |      |      | 50  | 1.50 | 4.9  |
|                                                            |              |                                |                   |       |      |      | 28.0Ω/M'          |      |      |                                                  |      |      |    |     |      |      | 100 | 2.12 | 7.0  |
|                                                            |              |                                |                   |       |      |      | 91.8Ω/km          |      |      |                                                  |      |      |    |     |      |      | 200 | 2.99 | 9.8  |
|                                                            |              |                                |                   |       |      |      |                   |      |      |                                                  |      |      |    |     |      |      | 300 | 3.66 | 12.0 |
|                                                            |              |                                |                   |       |      |      |                   |      |      |                                                  |      |      |    |     |      |      | 400 | 4.23 | 13.9 |

Tap marks every 2.6 meters to aid users in installation.  
Suitable for Outdoor and Direct Burial applications.**RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel • Duobond® IV\* Quad Shield**

| Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket |              |                                         |                   |       |       |      |                   |      |      |                                                 |      |       |    |     |      |      |     |      |     |
|-------------------------------------------------------------|--------------|-----------------------------------------|-------------------|-------|-------|------|-------------------|------|------|-------------------------------------------------|------|-------|----|-----|------|------|-----|------|-----|
|                                                             | <b>3094A</b> | NEC:<br>CL2R,<br>CMR<br>CEC:<br>CMR FT4 | 500 <sup>†</sup>  | 152.4 | 31.0  | 14.1 | 14 AWG<br>(solid) | .280 | 7.11 | Duobond IV<br>Quad Shield<br>1.8Ω/M'<br>5.9Ω/km | .407 | 10.34 | 75 | 82% | 16.2 | 53.1 | 1   | .30  | 1.0 |
|                                                             |              |                                         | 1000 <sup>†</sup> | 304.8 | 62.0  | 28.2 |                   |      |      |                                                 |      |       |    |     |      |      | 2   | .32  | 1.0 |
|                                                             |              |                                         | 2000              | 609.6 | 120.0 | 54.5 | .064"             |      |      |                                                 |      |       |    |     |      |      | 5   | .40  | 1.3 |
|                                                             |              |                                         |                   |       |       |      | Bare Copper       |      |      |                                                 |      |       |    |     |      |      | 10  | .60  | 2.0 |
|                                                             |              |                                         |                   |       |       |      | Covered           |      |      |                                                 |      |       |    |     |      |      | 20  | .71  | 2.3 |
|                                                             |              |                                         |                   |       |       |      | Steel             |      |      |                                                 |      |       |    |     |      |      | 50  | .90  | 3.0 |
|                                                             |              |                                         |                   |       |       |      | 11.0Ω/M'          |      |      |                                                 |      |       |    |     |      |      | 100 | 1.20 | 3.9 |
|                                                             |              |                                         |                   |       |       |      | 36.1Ω/km          |      |      |                                                 |      |       |    |     |      |      | 200 | 1.70 | 5.9 |
|                                                             |              |                                         |                   |       |       |      |                   |      |      |                                                 |      |       |    |     |      |      | 300 | 2.08 | 6.8 |
|                                                             |              |                                         |                   |       |       |      |                   |      |      |                                                 |      |       |    |     |      |      | 400 | 2.40 | 7.9 |

Tap marks every 2.6 meters to aid users in installation.

| Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket |              |                                         |                   |       |      |      |                   |      |      |                                                 |      |      |    |     |      |      |     |      |      |
|------------------------------------------------------------|--------------|-----------------------------------------|-------------------|-------|------|------|-------------------|------|------|-------------------------------------------------|------|------|----|-----|------|------|-----|------|------|
|                                                            | <b>3095A</b> | NEC:<br>CMP,<br>PLTC<br>CEC:<br>CMP FT6 | 1000 <sup>†</sup> | 304.8 | 76.0 | 34.5 | 14 AWG<br>(solid) | .280 | 7.11 | Duobond IV<br>Quad Shield<br>1.8Ω/M'<br>5.9Ω/km | .387 | 9.83 | 75 | 82% | 16.5 | 54.1 | 1   | .20  | .7   |
|                                                            |              |                                         |                   |       |      |      |                   |      |      |                                                 |      |      |    |     |      |      | 2   | .22  | .7   |
|                                                            |              |                                         |                   |       |      |      | .064"             |      |      |                                                 |      |      |    |     |      |      | 5   | .28  | .9   |
|                                                            |              |                                         |                   |       |      |      | Bare Copper       |      |      |                                                 |      |      |    |     |      |      | 10  | .39  | 1.3  |
|                                                            |              |                                         |                   |       |      |      | Covered           |      |      |                                                 |      |      |    |     |      |      | 20  | .60  | 2.0  |
|                                                            |              |                                         |                   |       |      |      | Steel             |      |      |                                                 |      |      |    |     |      |      | 50  | 1.20 | 3.9  |
|                                                            |              |                                         |                   |       |      |      | 11.0Ω/M'          |      |      |                                                 |      |      |    |     |      |      | 100 | 1.70 | 5.6  |
|                                                            |              |                                         |                   |       |      |      | 36.1Ω/km          |      |      |                                                 |      |      |    |     |      |      | 200 | 2.50 | 8.2  |
|                                                            |              |                                         |                   |       |      |      |                   |      |      |                                                 |      |      |    |     |      |      | 300 | 3.04 | 10.0 |
|                                                            |              |                                         |                   |       |      |      |                   |      |      |                                                 |      |      |    |     |      |      | 400 | 3.50 | 11.5 |

Tap marks every 2.6 meters to aid users in installation.  
Suitable for Outdoor and Direct Burial applications.

DCR = DC Resistance

\*Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.

†Spools are one piece, but length may vary ±10% from length shown.

**IEEE 802.5; ISO/IEC 8802.5**

IBM Cabling System

Types 1A and 1



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Nominal<br>OD |    | AWG<br>(stranding)<br>Diameter<br>Nom. DCR | Shielding | Nom.<br>Imped.<br>(Ω) | Nominal<br>Capacitance |           | Freq.<br>(MHz) | Maximum<br>Attenuation |               | Min.<br>NEXT   |               |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|---------------|----|--------------------------------------------|-----------|-----------------------|------------------------|-----------|----------------|------------------------|---------------|----------------|---------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch          | mm |                                            |           |                       | *<br>pF/Ft.            | *<br>pF/m |                | (dB/<br>1000')         | (dB/<br>100m) | (dB/<br>1000') | (dB/<br>100m) |

**IBM Type 1A • 22 AWG** Solid Bare Copper • Each Pair Individually Beldfoil® Shielded + Overall 65% TC Braid Shield • Rip Cord**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

|                                 |         |   |      |        |       |      |      |       |          |           |     |     |      |                   |       |      |      |      |
|---------------------------------|---------|---|------|--------|-------|------|------|-------|----------|-----------|-----|-----|------|-------------------|-------|------|------|------|
| <b>IBM Part No.</b> <b>9688</b> | NEC:    | 2 | 500  | 152.4  | 26.5  | 12.0 | .296 | 7.52  | 22       | 100%      | 150 | 8.5 | 27.9 | 4                 | 6.7   | 2.2  | 58.0 | 58.0 |
| 4716748                         | MPG,    |   | 1000 | 304.8  | 50.0  | 22.7 | x    | x     | (solid)  | Beldfoil  |     |     |      | 16                | 13.4  | 4.4  | 50.4 | 50.4 |
| 33G2772                         | CMG     |   | 2000 | 609.8  | 102.0 | 46.3 | .431 | 10.95 | BC       | Each Pair |     |     |      | 100               | 37.5  | 12.3 | 38.5 | 38.5 |
|                                 | CEC:    |   | 3600 | 1097.6 | 190.8 | 86.5 |      |       | .026"    | + 65%     |     |     |      | 300               | 65.2  | 21.4 | 31.3 | 31.3 |
|                                 | MPG,    |   |      |        |       |      |      |       | 16.7Ω/M' | TC Braid  |     |     |      | 100 <sup>††</sup> | 40.8  | 13.4 | —    | —    |
|                                 | CMG FT4 |   |      |        |       |      |      |       | 54.7Ω/km | Overall   |     |     |      | 300 <sup>††</sup> | 71.0  | 23.3 | —    | —    |
|                                 |         |   |      |        |       |      |      |       |          |           |     |     |      | 600 <sup>††</sup> | 100.3 | 32.9 | —    | —    |



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.  
IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Non-suffix "A" Type IBM Product, see **1634A** below.

**Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket**

|                                  |         |   |                   |       |      |      |      |      |          |           |     |     |      |                   |       |      |      |      |
|----------------------------------|---------|---|-------------------|-------|------|------|------|------|----------|-----------|-----|-----|------|-------------------|-------|------|------|------|
| <b>IBM Part No.</b> <b>82688</b> | NEC:    | 2 | 500 <sup>†</sup>  | 152.4 | 25.0 | 11.4 | .248 | 6.30 | 22       | 100%      | 150 | 8.5 | 27.9 | 4                 | 6.7   | 2.2  | 58.0 | 58.0 |
| 4716749                          | MPP,    |   | 1000 <sup>†</sup> | 304.8 | 47.0 | 21.4 | x    | x    | (solid)  | Beldfoil  |     |     |      | 16                | 13.4  | 4.4  | 50.4 | 50.4 |
| 33G8220                          | CMP     |   |                   |       |      |      | .348 | 8.84 | BC       | Each Pair |     |     |      | 100               | 37.5  | 12.3 | 38.5 | 38.5 |
|                                  | CEC:    |   |                   |       |      |      |      |      | .026"    | + 65%     |     |     |      | 300               | 65.2  | 21.4 | 31.3 | 31.3 |
|                                  | MPP,    |   |                   |       |      |      |      |      | 16.7Ω/M' | TC Braid  |     |     |      | 100 <sup>††</sup> | 40.8  | 13.4 | —    | —    |
|                                  | CMP FT6 |   |                   |       |      |      |      |      | 54.7Ω/km | Overall   |     |     |      | 300 <sup>††</sup> | 71.0  | 23.3 | —    | —    |
|                                  |         |   |                   |       |      |      |      |      |          |           |     |     |      | 600 <sup>††</sup> | 100.3 | 32.9 | —    | —    |



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified.

IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.

**IBM Type 1 • 22 AWG** Solid Bare Copper • Each Pair Individually Beldfoil Shielded + Overall 65% TC Braid Shield • Rip Cord**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

|                                  |         |   |      |        |       |      |      |       |          |           |     |     |      |    |      |     |      |      |
|----------------------------------|---------|---|------|--------|-------|------|------|-------|----------|-----------|-----|-----|------|----|------|-----|------|------|
| <b>IBM Part No.</b> <b>1634A</b> | NEC:    | 2 | 1000 | 304.8  | 50.0  | 22.7 | .296 | 7.52  | 22       | 100%      | 150 | 8.5 | 27.9 | 4  | 6.7  | 2.2 | 58.0 | 58.0 |
| 4716748                          | MPG,    |   | 2000 | 609.8  | 102.0 | 46.4 | x    | x     | (solid)  | Beldfoil  |     |     |      | 16 | 13.4 | 4.4 | 40.0 | 40.0 |
|                                  | CMG     |   | 3600 | 1097.6 | 190.8 | 86.7 | .431 | 10.95 | BC       | Each Pair |     |     |      |    |      |     |      |      |
|                                  | CEC:    |   |      |        |       |      |      |       | .026"    | + 65%     |     |     |      |    |      |     |      |      |
|                                  | MPG,    |   |      |        |       |      |      |       | 16.7Ω/M' | TC Braid  |     |     |      |    |      |     |      |      |
|                                  | CMG FT4 |   |      |        |       |      |      |       | 54.7Ω/km | Overall   |     |     |      |    |      |     |      |      |



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.

IBM qualified Type 1 Media cable for use in IBM Cabling Systems. For Suffix A counterpart see 9688 above.

DCR = DC Resistance • BC = Bare Copper • NEXT = Near-end Crosstalk • TC = Tinned Copper

\* Capacitance between conductors

<sup>†</sup> Spools are one piece, but length may vary ±10% from length shown.

<sup>††</sup> Common mode

Teflon is a DuPont trademark.



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**IEEE 802.5; ISO/IEC 8802.5**

IBM Cabling System  
Types 2A and 6A

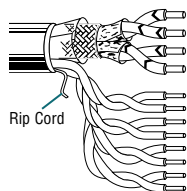


| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Standard Lengths |   | Standard Unit Wt. |    | Nominal OD |    | AWG (stranding) Diameter Nom. DCR | Shielding | Nom. Imped. (Ω) | Nominal Capacitance |        | Freq. (MHz) | Maximum Attenuation |            | Min. NEXT   |            |
|-------------|----------|------------------------|--------------|------------------|---|-------------------|----|------------|----|-----------------------------------|-----------|-----------------|---------------------|--------|-------------|---------------------|------------|-------------|------------|
|             |          |                        |              | Ft.              | m | Lbs.              | kg | Inch       | mm |                                   |           |                 | * pF/Ft.            | * pF/m |             | (dB/ 1000')         | (dB/ 100m) | (dB/ 1000') | (dB/ 305m) |

**IBM Type 2A • 22 AWG Solid Bare Copper • (2) Data Pairs Individually Beldfoil® Shielded + Overall 65% TC Braid + Mylar® Shield • Rip Cord**

**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

|                          |         |    |      |        |       |       |      |       |          |             |         |        |        |       |       |      |      |      |
|--------------------------|---------|----|------|--------|-------|-------|------|-------|----------|-------------|---------|--------|--------|-------|-------|------|------|------|
| <b>IBM Part No.</b> 9689 | NEC:    | 6* | 500  | 152.4  | 43.0  | 19.5  | .324 | 8.26  | 22       | 100%        | 150     | 8.5    | 27.9   | 1k**  | .390  | .128 | —    | —    |
| 4716739                  | MPG,    |    | 1000 | 304.8  | 80.0  | 36.4  | x    | x     | (solid)  | Beldfoil    | @ 1MHz  | (data) | (data) | 4     | 6.7   | 2.2  | 58.0 | 58.0 |
| 33G2773                  | CMG     |    | 3600 | 1097.6 | 298.8 | 135.8 | .466 | 11.84 | BC       | Each Pair   | (data)  |        |        | 16    | 13.4  | 4.4  | 50.4 | 50.4 |
|                          | CEC:    |    |      |        |       |       |      |       | .026"    | + 65%       | 600     |        |        | 100   | 37.5  | 12.3 | 38.5 | 38.5 |
|                          | MPG,    |    |      |        |       |       |      |       | 16.7Ω/M' | TC Braid    | @ 1kHz  |        |        | 300   | 65.2  | 21.4 | 31.3 | 31.3 |
|                          | CMG FT4 |    |      |        |       |       |      |       | 54.7Ω/km | Overall     | (voice) |        |        | 100†† | 40.8  | 13.4 | —    | —    |
|                          |         |    |      |        |       |       |      |       |          | (data only) |         |        |        | 300†† | 71.0  | 23.3 | —    | —    |
|                          |         |    |      |        |       |       |      |       |          |             |         |        |        | 600†† | 100.3 | 32.9 | —    | —    |

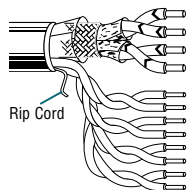


For Plenum version of 9689, see 82689.

IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

**Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket**

|                           |         |    |       |       |      |      |      |       |          |             |         |        |        |       |       |      |      |      |
|---------------------------|---------|----|-------|-------|------|------|------|-------|----------|-------------|---------|--------|--------|-------|-------|------|------|------|
| <b>IBM Part No.</b> 82689 | NEC:    | 6* | 1000† | 304.8 | 79.0 | 35.9 | .324 | 8.26  | 22       | 100%        | 150     | 8.5    | 27.9   | 1k**  | .390  | .128 | —    | —    |
| 4716738                   | MPP,    |    |       |       |      |      | x    | x     | (solid)  | Beldfoil    | @ 1MHz  | (data) | (data) | 4     | 6.7   | 2.2  | 58.0 | 58.0 |
| 33G8221                   | CMP     |    |       |       |      |      | .466 | 11.84 | BC       | Each Pair   | (data)  |        |        | 16    | 13.4  | 4.4  | 50.4 | 50.4 |
|                           | CEC:    |    |       |       |      |      |      |       | .026"    | + 65%       | 600     |        |        | 100   | 37.5  | 12.3 | 38.5 | 38.5 |
|                           | MPP,    |    |       |       |      |      |      |       | 16.7Ω/M' | TC Braid    | @ 1kHz  |        |        | 300   | 65.2  | 21.4 | 31.3 | 31.3 |
|                           | CMP FT6 |    |       |       |      |      |      |       | 54.7Ω/km | Overall     | (voice) |        |        | 100†† | 40.8  | 13.4 | —    | —    |
|                           |         |    |       |       |      |      |      |       |          | (data only) |         |        |        | 300†† | 71.0  | 23.3 | —    | —    |
|                           |         |    |       |       |      |      |      |       |          |             |         |        |        | 600†† | 100.3 | 32.9 | —    | —    |



IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

**IBM Type 6A • 26 AWG Stranded (7x34) Bare Copper Twisted Pairs • Beldfoil Shielded Pairs + Overall 65% Tinned Copper Braid Shield**

**Non-Plenum • Datalene® Insulation • Striated Black PVC Jacket**

|                           |         |   |       |       |      |      |      |      |           |           |     |     |      |     |     |      |      |      |
|---------------------------|---------|---|-------|-------|------|------|------|------|-----------|-----------|-----|-----|------|-----|-----|------|------|------|
| <b>IBM Part No.</b> 1215A | NEC:    | 2 | 1000† | 304.8 | 46.0 | 20.9 | .325 | 8.26 | 26        | 100%      | 150 | 8.5 | 27.9 | 4   | 10  | 3.3  | 52.0 | 52.0 |
| 4716743                   | CL2, CM |   |       |       |      |      |      |      | (7x34)    | Beldfoil  |     |     |      | 16  | 20  | 6.6  | 44.0 | 44.0 |
| 33G2775                   | CEC:    |   |       |       |      |      |      |      | BC        | Each Pair |     |     |      | 100 | 57  | 18.7 | 33.0 | 33.0 |
|                           | CM      |   |       |       |      |      |      |      | .019"     | + 65%     | 300 |     |      | 300 | 100 | 32.8 | 25.0 | 25.0 |
|                           |         |   |       |       |      |      |      |      | 38.7Ω/M'  | TC Braid  |     |     |      |     |     |      |      |      |
|                           |         |   |       |       |      |      |      |      | 127.0Ω/km | Overall   |     |     |      |     |     |      |      |      |



IBM qualified Type 6A Office cable for use in IBM Cabling Systems.

BC = Bare Copper • DCR = DC Resistance • NEXT = Near-end Crosstalk • TC = Tinned Copper

\* Capacitance between conductors

\*\* Voice pairs (1 kHz); Data pairs (4–600 MHz)

† Spools are one piece, but length may vary ±10% from length shown.

†† Common mode

△ (2) shielded Data-grade pairs; (4) unshielded Voice-grade media pairs

Mylar and Teflon are DuPont trademarks.



## IBM RISC System/6000

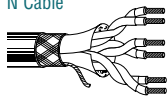


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs/<br>Cond. | Standard Lengths |   | Standard<br>Unit Wt. |    | Nominal<br>OD |    | AWG<br>(stranding)<br>Material<br>Nom. DCR | Shielding<br>Material<br>Nom. DCR | Nom.<br>Imped.<br>( $\Omega$ ) | Nominal Capacitance |           |              |            |
|-------------|----------|------------------------------|------------------------------|------------------|---|----------------------|----|---------------|----|--------------------------------------------|-----------------------------------|--------------------------------|---------------------|-----------|--------------|------------|
|             |          |                              |                              | Ft.              | m | Lbs.                 | kg | Inch          | mm |                                            |                                   |                                | *<br>pF/Ft.         | *<br>pF/m | **<br>pF/Ft. | **<br>pF/m |

**28 AWG** Stranded (7x36) Bare Copper Twisted Pairs • Overall Beldfoil® Shielded + 65% Tinned Copper Braid • Tinned Copper Drain Wire

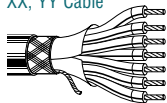
**Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket** (See RISC Color Code Chart below)

|                                |              |             |   |                |                  |              |              |      |      |                                                                        |                                                                                   |     |      |      |      |      |
|--------------------------------|--------------|-------------|---|----------------|------------------|--------------|--------------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------|------|------|------|
| <b>IBM Part No.</b><br>N Cable | <b>1538A</b> | NEC:<br>CL2 | 3 | U-1000<br>1000 | U-304.8<br>304.8 | 24.0<br>25.0 | 10.9<br>11.4 | .225 | 5.72 | 28<br>(7x36)<br>Bare Copper<br>63.0 $\Omega$ /M'<br>207.0 $\Omega$ /km | Overall<br>Beldfoil<br>+ 65%<br>TC Braid<br>5.5 $\Omega$ /M'<br>18.0 $\Omega$ /km | 120 | 12.0 | 39.4 | 21.5 | 70.5 |
|--------------------------------|--------------|-------------|---|----------------|------------------|--------------|--------------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------|------|------|------|



RJ-45 compatible

|                                     |              |             |     |                |                  |              |            |      |      |                                                                        |                                                                                   |   |      |      |      |      |
|-------------------------------------|--------------|-------------|-----|----------------|------------------|--------------|------------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|------|------|------|------|
| <b>IBM Part No.</b><br>XX, YY Cable | <b>1540A</b> | NEC:<br>CL2 | 7/c | U-1000<br>1000 | U-304.8<br>304.8 | 21.0<br>21.0 | 9.5<br>9.5 | .190 | 4.83 | 28<br>(7x36)<br>Bare Copper<br>63.0 $\Omega$ /M'<br>207.0 $\Omega$ /km | Overall<br>Beldfoil<br>+ 65%<br>TC Braid<br>7.2 $\Omega$ /M'<br>23.6 $\Omega$ /km | — | 12.5 | 41.0 | 23.0 | 75.5 |
|-------------------------------------|--------------|-------------|-----|----------------|------------------|--------------|------------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|------|------|------|------|

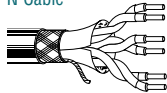


RJ-45 compatible

**24 AWG** Solid Bare Copper Twisted Pairs • Overall Beldfoil Shielded + 65% Tinned Copper Braid • Tinned Copper Drain Wire

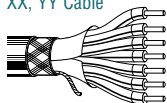
**Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket** (See RISC Color Code Chart below)

|                                |              |                                |   |      |       |      |      |      |      |                                                                        |                                                                                   |     |      |      |      |      |
|--------------------------------|--------------|--------------------------------|---|------|-------|------|------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------|------|------|------|
| <b>IBM Part No.</b><br>N Cable | <b>1534A</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 3 | 1000 | 304.8 | 29.0 | 13.2 | .249 | 6.32 | 24<br>(solid)<br>Bare Copper<br>25.0 $\Omega$ /M'<br>82.0 $\Omega$ /km | Overall<br>Beldfoil<br>+ 65%<br>TC Braid<br>4.5 $\Omega$ /M'<br>14.8 $\Omega$ /km | 100 | 15.0 | 49.2 | 26.0 | 85.3 |
|--------------------------------|--------------|--------------------------------|---|------|-------|------|------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------|------|------|------|



RJ-45 compatible

|                                     |              |                                |     |      |       |      |      |      |      |                                                                        |                                                                                   |   |      |      |      |      |
|-------------------------------------|--------------|--------------------------------|-----|------|-------|------|------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|------|------|------|------|
| <b>IBM Part No.</b><br>XX, YY Cable | <b>1536A</b> | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 7/c | 1000 | 304.8 | 35.0 | 15.9 | .244 | 6.20 | 24<br>(solid)<br>Bare Copper<br>25.0 $\Omega$ /M'<br>82.0 $\Omega$ /km | Overall<br>Beldfoil<br>+ 65%<br>TC Braid<br>5.3 $\Omega$ /M'<br>17.4 $\Omega$ /km | — | 12.5 | 41.0 | 23.0 | 75.5 |
|-------------------------------------|--------------|--------------------------------|-----|------|-------|------|------|------|------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|------|------|------|------|



RJ-45 compatible

DC = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors

\*\* Capacitance between one conductor and other conductors connected to shield

## Color Codes: IBM RISC System/6000

| Cond. | Color             | Pair No. | Color Combination                        |
|-------|-------------------|----------|------------------------------------------|
| 1st   | White over Blue   | 1        | White over Blue &<br>Blue over White     |
| 2nd   | White over Orange | 2        | White over Orange &<br>Orange over White |
| 3rd   | White over Green  | 3        | White over Green &<br>Green over White   |
| 4th   | White over Brown  |          |                                          |
| 5th   | White over Gray   |          |                                          |
| 6th   | White over Red    |          |                                          |
| 7th   | White over Yellow |          |                                          |



## SCSI 2 Paired Cable

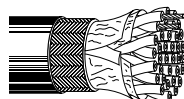
(Small Computer System Interface)



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Weight |    | Nominal<br>OD |    | AWG<br>(stranding)<br>Material<br>Nom. DCR | Shielding<br>Material<br>Nom. DCR | Nom.<br>Imped.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |           |              |            |
|-------------|----------|------------------------------|--------------------|------------------|---|-------------------------|----|---------------|----|--------------------------------------------|-----------------------------------|--------------------------------|-----------------------------|---------------------|-----------|--------------|------------|
|             |          |                              |                    | Ft.              | m | Lbs.                    | kg | Inch          | mm |                                            |                                   |                                |                             | *<br>pF/Ft.         | *<br>pF/m | **<br>pF/Ft. | **<br>pF/m |

**SCSI • 28 AWG** Stranded (7x36) TC Twisted Pairs • Overall Beldfoil® Shield + 85% TC Braid Shield • Color Code: Mod. Western Electric Standard

**Non-Plenum • Flame-retardant Polyolefin Insulation • Polypropylene Buffer Layer • Light Gray PVC Jacket**



|                                        |    |             |                |               |              |      |      |                                                               |                                                                                  |              |     |      |      |      |      |
|----------------------------------------|----|-------------|----------------|---------------|--------------|------|------|---------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|-----|------|------|------|------|
| NEC:<br>CL2,<br>CMG<br>CEC:<br>CMG FT4 | 25 | 500<br>1000 | 152.4<br>304.8 | 51.5<br>101.0 | 23.4<br>45.9 | .420 | 10.7 | 28<br>(7x36)<br>TC<br>64.9 $\Omega$ /M'<br>212.9 $\Omega$ /km | Overall<br>Beldfoil<br>+ 85%<br>TC Braid<br>2.0 $\Omega$ /M'<br>6.6 $\Omega$ /km | 120†<br>80†† | 66% | 12.7 | 45.9 | 30.0 | 98.4 |
|----------------------------------------|----|-------------|----------------|---------------|--------------|------|------|---------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|-----|------|------|------|------|



|                               |    |             |                |               |              |      |      |                                                     |                                                                                  |              |     |      |      |      |      |
|-------------------------------|----|-------------|----------------|---------------|--------------|------|------|-----------------------------------------------------|----------------------------------------------------------------------------------|--------------|-----|------|------|------|------|
| NEC:<br>CL2, CM<br>CEC:<br>CM | 34 | 500<br>1000 | 152.4<br>304.8 | 71.5<br>139.0 | 32.5<br>63.2 | .480 | 12.2 | 28<br>(7x36)<br>TC<br>64.9/M'<br>212.2 $\Omega$ /km | Overall<br>Beldfoil<br>+ 85%<br>TC Braid<br>1.5 $\Omega$ /M'<br>4.9 $\Omega$ /km | 120†<br>80†† | 66% | 12.7 | 45.9 | 30.0 | 98.4 |
|-------------------------------|----|-------------|----------------|---------------|--------------|------|------|-----------------------------------------------------|----------------------------------------------------------------------------------|--------------|-----|------|------|------|------|

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Differential mode impedance.

†† Single end mode termination impedance.

### Color Codes: Modified Western Electric Standard

| Pair No. | Color Combination                         | Pair No. | Color Combination                         | Pair No. | Color Combination                           | Pair No. | Color Combination                       |
|----------|-------------------------------------------|----------|-------------------------------------------|----------|---------------------------------------------|----------|-----------------------------------------|
| 1        | White/Blue Stripe & Blue/White Stripe     | 9        | Red/Brown Stripe & Brown/Red Stripe       | 17       | Yellow/Orange Stripe & Orange/Yellow Stripe | 25       | Purple/Gray Stripe & Gray/Purple Stripe |
| 2        | White/Orange Stripe & Orange/White Stripe | 10       | Red/Gray Stripe & Gray/Red Stripe         | 18       | Yellow/Green Stripe & Green/Yellow Stripe   | 26       | White & Blue                            |
| 3        | White/Green Stripe & Green/White Stripe   | 11       | Black/Blue Stripe & Blue/Black Stripe     | 19       | Yellow/Brown Stripe & Brown/Yellow Stripe   | 27       | White & Orange                          |
| 4        | White/Brown Stripe & Brown/White Stripe   | 12       | Black/Orange Stripe & Orange/Black Stripe | 20       | Yellow/Gray Stripe & Gray/Yellow Stripe     | 28       | White & Green                           |
| 5        | White/Gray Stripe & Gray/White Stripe     | 13       | Black/Green Stripe & Green/Black Stripe   | 21       | Purple/Blue Stripe & Blue/Purple Stripe     | 29       | White & Brown                           |
| 6        | Red/Blue Stripe & Blue/Red Stripe         | 14       | Black/Brown Stripe & Brown/Black Stripe   | 22       | Purple/Orange Stripe & Orange/Purple Stripe | 30       | White & Gray                            |
| 7        | Red/Orange Stripe & Orange/Red Stripe     | 15       | Black/Gray Stripe & Gray/Black Stripe     | 23       | Purple/Green Stripe & Green/Purple Stripe   | 31       | Red & Blue                              |
| 8        | Red/Green Stripe & Green/Red Stripe       | 16       | Yellow/Blue Stripe & Blue/Yellow Stripe   | 24       | Purple/Brown Stripe & Brown/Purple Stripe   | 32       | Red & Orange                            |
|          |                                           |          |                                           |          |                                             | 33       | Red & Green                             |
|          |                                           |          |                                           |          |                                             | 34       | Red & Brown                             |

## Technical Information

### Cable Preparation Tool



#### Cable Preparation Tool Speeds Installation of Bonded-Pair Cables

You know the high performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden® Cable Preparation Tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination. This tool is ideal for use with Belden's DataTwist® 350, MediaTwist®, and DataTwist 600e Bonded-Pair cables, providing special features that help separate twisted pairs. It can also be used to prepare any unbonded-pair cable for installation.



#### Instructions

The Belden Cable Preparation Tool now makes it faster and easier than ever to strip the outer jacket from cables without damaging the inner conductors and insulation.

#### Jacket Removal

**DataTwist:** Insert cable into the cutting area and rotate tool at least one complete turn. Remove the jacket end.

**MediaTwist:** Score the printed top and both sides of the cable with scissors or the Cable Preparation Tool. Then snap the cable from side to side to complete jacket separation.



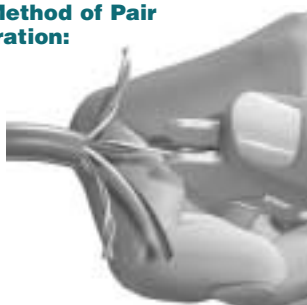
#### Pair Separation Techniques

Belden's Cable Preparation Tool allows you to choose from either the new "Pick" technique or the traditional "Blade Slot" technique to better facilitate pair untwisting. The Pick technique utilizes a steel awl that is incorporated into the tip of the tool that is surrounded on both sides with guards to assist in pair alignment during the pair

separation step. The Pick technique allows for a simple "pick-n-pull" motion to easily separate the conductors of a twisted pair cable. The Blade Slot technique provides the technician an alternate method for separating the conductors quickly and easily. See instructions below for either technique.

#### Choose Either the Pick Method or Blade Slot Method

##### Pick Method of Pair Preparation:



Lay each twisted pair into the tool channel with the pair ends facing toward the pick. Place your thumb on the thumb notch to stabilize and secure the pair. The tip of the pick should rest in the webbing between the two conductors. While holding the pair in place with your thumb, puncture the pair webbing with the pick.



Hold the cable in one hand and with the hand holding the tool, pull the tool away from you, allowing the pick to separate the conductors of the pair.

##### Blade Slot Method of Pair Preparation:

Refer to the Blade Slot Selection Table to determine which blade slot to use to separate the pairs.



Insert each twisted pair into the appropriate slot. Rotate the tool and/or the pair in the direction opposite of the twist to prevent stripping the conductor insulation. Continue insertion to match the desired length of untwisted section.

#### Blade Slot Selection Table

| Part No. | Slot A    | Slot B    | Slot C    |
|----------|-----------|-----------|-----------|
| 1700A    | All pairs |           |           |
| 1700R    | All pairs |           |           |
| 1701A    |           | All pairs |           |
| 1872A    | All pairs |           |           |
| 1874A    | All pairs |           |           |
| 7851A    |           |           | All pairs |
| 7852A    |           |           | All pairs |

NOTE: TIA/EIA-568-B allows a maximum of 0.5 inch of untwisted section after termination.



By:



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1-800-527-0010



# Broadcast Cables

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## Introduction

Broadcast — there is perhaps no other industry which values performance so highly, for the lack of broadcast performance has immediate, far-reaching, and embarrassing results.

That's why the broadcast industry prefers Belden® cable. From major network events such as the Olympics, space launches, and presidential news conferences to everyday audio and video applications, Belden is the local, regional, and national choice. The overwhelming reason? Performance.

In broadcast, cable performance means ensured product quality, absolute signal integrity, and no system downtime. Belden products provide performance for both critical field applications (where cable is dragged, crunched, trod, and tread upon) and permanent studio installations (where the long run is all important). Belden products are an important link in network and cable broadcasts (NBC Nightly News, Lifetime Cable Network, CNN News, and CNN Headline News), film studios (Lucasfilm) and corporate broadcasting (USA Today, Merrill Lynch).

Watch television last night or listen to the radio this morning? Chances are the link was made with Belden cable. And with dedication to development and innovation, the chance the link will be Belden increases.

### Committed to Product Innovation and Technical Excellence

Belden's commitment to product innovation and technical excellence in the broadcast industry has resulted in a line of dependable audio and video cabling products called Brilliance®. Named for the sound and picture brilliance obtainable through new product innovations and improved signal integrity, Brilliance encompasses all Belden Audio/Video products. The line includes:

- High-Conductivity Microphone Cables
- Analog/Digital Audio Cables
- Speaker Cables
- Precision Analog/Digital Video Cables
- Triaxial Cables
- Audio/Video Composite Cables
- RGB & SVHS Cables
- Multimedia Cables
- Fiber Optic Cable  
(See Fiber Optic Section)

Most of our Brilliance cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find Brilliance cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

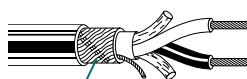
### Performance Features

#### Innovative Shielding

Belden shielded cable ensures signal integrity and provides confidence in audio and video transmissions, preventing downtime and maintaining sound and picture clarity. Among the shield types available are: braid shields, foil shields, combination shields and Belden's patented "French Braid" shield.

#### "French Braid" Shields

Belden's patented "French Braid" shield is a double spiral (double serve bare copper shield) with the two spirals tied together by one weave. This construction provides improved flex life over standard spiral shields, improved flexibility over conventional braid shields, and lower levels of microphonic or triboelectric noise than either spiral or conventional braid shields. The "French Braid" is easier to terminate than a standard braid since it is not fully woven. It also provides for a lower DC loop resistance than a single spiral braid for improved performance.



French Braid

#### Special Noise/Interference Problems in Broadcasting

Triboelectric noise is generated by mechanical motion of a cable, causing movement in the cable's shield. Belden detects and measures triboelectric noise through the use of Low Noise Test equipment. Belden developed the test procedure and the equipment based on a combination of three low noise standards: NBS, ISA-S, and MIL-C-17.

Mechanically induced noise is a critical and frequent concern in the use of guitar cords and microphone cables. Belden rigorously employs the properties of special conductive tapes and insulations to prevent these noise problems.



### Insulations

Belden formulates its own insulations to provide superior performance under a variety of broadcast environment conditions while meeting the electrical requirements of specific applications. Belden cables are available in a number of UL Listed and CSA Approved insulation compounds. Insulation materials include polyethylene, polypropylene, PVC, fluorinated ethylene-propylene (FEP) and Belden's Datalene® — a crush-resistant, lightweight insulation that provides a low dielectric constant and dissipation factor that's well suited to high-speed, low-distortion data handling.

### Jackets

Belden broadcast cables are manufactured in a wide selection of standard jacketing materials. Special compounds and variations of standard compounds are used to meet critical broadcast application requirements and unusual environmental conditions. Proper matching of cable jackets to their working environment can prevent deterioration due to intense heat and cold, sunlight, mechanical abuse, impact and crowd or vehicle traffic. Jacket materials offered include PVC (in standard and matte finishes), polyethylene, FEP, Neoprene, Hypalon®, silicone rubber and natural rubber.

For more detailed information and assistance in selecting the correct cable component features for your needs, please refer to the Technical Information section of this catalog.



By: **INTERSTATEWIRE**  
INCORPORATED

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Hypalon is a DuPont trademark.

**1-800-527-0010**

# Microphone and Musical Instrument Cable

## Overview



### Flexible Microphone Cables

Belden® microphone cable is used for connecting low level microphones or musical instruments. Key properties of microphone (MIC) cable are ruggedness, flexibility, flex life and interference immunity.

MIC cable constructions utilize either 1-, 2-, 3- or 4-conductor configurations. Cable selection depends on whether the MIC or instrument is of a high- or low-impedance design. High-impedance MICs require unbalanced single conductor (coaxial) cables while low-impedance MICs utilize balanced 2-, 3-, or 4-conductor (quad) designs. Quad MIC cables are connected by attaching the two white conductors to one pin and two blue conductors to the other pin in a balanced-line XLR type connector. Besides the common-mode rejection of a standard balanced line, this gives common-mode rejection at each pin, greatly reducing noise and interference.

### High-conductivity Copper

All Belden microphone cables with bare copper conductors utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a copper conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115. The high purity obtained from ETP copper results in microphone cable performance that is comparable to that of oxygen-free copper cables.

- **Plastic cables recommended for:**  
Lower capacitance, lower loss, greater ozone and oil resistance, lighter weight, smaller diameter.
- **Rubber cables recommended for:**  
Greater abrasion and impact resistance and extra limpness so the cable will lie flat on stage or on studio floors.

### Four-Conductor Star Quad Low-Impedance Cables

**Quad connection scheme:** The two blue wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the two white wires (or remaining wires) are connected together to form the second conductor.

Conductors joined in this manner lower the possibility of induced noise.



## Microphone and Musical Instrument Cable

Single-Conductor, High-Impedance Cables

High-Conductivity Copper

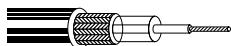


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**25 AWG** Stranded (7x33) High-conductivity Copper • (3) Strands TC, (4) Strands TCCS • Tinned Copper Braid Shield (72% Coverage)

**Braided Textile Polyethylene Insulation • Chrome PVC Jacket**

5000 VDC, 80°C **8401** 1 N/A 1000 304.8 22.0 10.0 .043 1.09 .025 .64 .199 5.05 — — 28 92



Nom impedance: 57 ohms.

**25 AWG** Stranded (7x33) High-conductivity Copper • (3) Strands TC, (4) Strands TCCS • Tinned Copper Spiral Shield (90% Coverage)

**PVC Insulation • Matte Gray PVC Jacket**

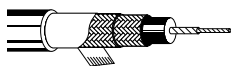
1000 VDC, 60°C **9396** 1 N/A 250 76.2 2.8 1.3 .018 .46 .017 .43 .100 2.54 — — 75 246



**25 AWG** Stranded (7x33) High-conductivity Copper • (3) Strands TC, (4) Strands TCCS • Rayon Braid + TC Braid Shield (80% Coverage)

**Rayon Braid, Rubber Insulation • Black EPDM Rubber Jacket**

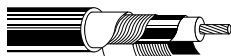
3000 VDC, 60°C **8410** 1 N/A 500 152.4 20.5 9.3 .058 1.47 .024 .61 .245 6.22 — — 33 108



**20 AWG** Stranded (27x34) High-conductivity TC • Conductive Textile Shield (100% Coverage) • TC Spiral Shield (95%) • Paper Tape

**Rubber Insulation • Black Neoprene Jacket**

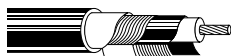
60°C **9394** 1 N/A 1000 304.8 28.0 12.7 .030 .76 .033 .84 .190 4.83 — — 55 180



**20 AWG** Stranded (27x34) High-conductivity TC • Conductive Textile Shield (100% Coverage) • TC Spiral Shield (75%) • Paper Tape

**Rubber Insulation • Black Neoprene Jacket**

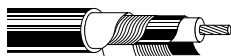
60°C **9778** 1 N/A 1000 304.8 38.0 17.3 .040 1.02 .050 1.27 .235 5.97 — — 45 148



**18 AWG** Stranded (41x34) High-conductivity TC • Conductive Textile Shield (100% Coverage) • TC Spiral Shield (68%) • Paper Tape

**Rubber Insulation • Black Neoprene Jacket**

600V RMS, 60°C **9395** 1 N/A 1000 304.8 37.0 16.8 .045 1.14 .034 .86 .235 5.97 — — 55 180



EPDM = Ethylene-propylene-diene Monomer Rubber • TC = Tinned Copper • TCCS = Tinned Copper-covered Steel

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



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## Microphone and Musical Instrument Cable

Two-Conductor, Low-Impedance Cables  
High-Conductivity Copper



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG** Stranded (105x44) High-conductivity Bare Copper • Conductors Cabled with Fillers • Bare Copper Double Spiral Shield

### PVC Insulation • Matte Black PVC Jacket

|               |             |  |   |                 |      |       |      |      |      |     |      |     |      |      |    |     |     |     |
|---------------|-------------|--|---|-----------------|------|-------|------|------|------|-----|------|-----|------|------|----|-----|-----|-----|
| 300V RMS 80°C | <b>9397</b> |  | 2 | White,<br>Green | 500  | 152.4 | 12.0 | 5.5  | .012 | .30 | .031 | .79 | .176 | 4.47 | 40 | 131 | 110 | 361 |
|               |             |  |   |                 | 1000 | 304.8 | 24.0 | 10.9 |      |     |      |     |      |      |    |     |     |     |



**24 AWG** Stranded (45x40) HC TCB • Cotton Serve • Cabled with Fillers • Conductive Textile Wrap (100%) • 56% TC Braid Shield • Cotton Spiral

### Rubber Insulation • Black EPDM Jacket

|           |             |  |   |                 |       |         |      |     |      |     |      |     |      |      |    |    |    |     |
|-----------|-------------|--|---|-----------------|-------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| 300V 90°C | <b>8413</b> |  | 2 | White,<br>Black | 100   | 30.5    | 3.1  | 1.4 | .016 | .41 | .017 | .43 | .199 | 5.05 | 30 | 98 | 55 | 180 |
|           |             |  |   |                 | U-500 | U-152.4 | 12.0 | 5.5 |      |     |      |     |      |      |    |    |    |     |
|           |             |  |   |                 | 500   | 152.4   | 12.0 | 5.5 |      |     |      |     |      |      |    |    |    |     |



**24 AWG** Stranded (45x40) HC BCC • Cotton Serve • Cabled with Fillers • Conductive Textile Wrap (100%) • 65% TC Braid Shield • Cotton Spiral

### Rubber Insulation • Brown EPDM Jacket

|           |             |  |   |              |     |       |      |     |      |     |      |     |      |      |    |    |    |     |
|-----------|-------------|--|---|--------------|-----|-------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| 300V 90°C | <b>9399</b> |  | 2 | Blue,<br>Red | 500 | 152.4 | 13.5 | 6.1 | .016 | .41 | .020 | .51 | .200 | 5.08 | 30 | 98 | 55 | 180 |
|-----------|-------------|--|---|--------------|-----|-------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|



**24 AWG** Stranded (42x40) High-conductivity BC • Conductors Cabled with Fillers • TC "French Braid" Shield (95% Coverage) • BC Drain Wire

### Datalene® Insulation • Matte PVC Jacket (Available in Red, Yellow, Green, Blue or Black)

|                                        |              |                    |   |               |        |         |      |      |      |     |      |     |      |      |    |    |    |    |
|----------------------------------------|--------------|--------------------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|----|
| Digital MIC Cable<br>High-Flex<br>60°C | <b>1800F</b> | NEC:               | 2 | Black,<br>Red | 500 ▲  | 152.4   | 13.5 | 6.1  | .017 | .43 | .037 | .94 | .211 | 5.36 | 13 | 43 | 26 | 85 |
|                                        |              | CL2R               |   |               | U-1000 | U-304.8 | 26.0 | 11.8 |      |     |      |     |      |      |    |    |    |    |
|                                        |              | 110 Ohm<br>AES/EBU |   |               | 1000 ▲ | 304.8   | 26.0 | 11.8 |      |     |      |     |      |      |    |    |    |    |



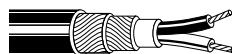
French Braid

▲500 ft. and 1000 ft. put-ups available in Black only.

**24 AWG** Stranded (42x40) High-conductivity Bare Copper • Conductors Cabled • Bare Copper Double Spiral Shield

### PVC Insulation • Matte PVC Jacket (Available in Red, Yellow, Green, Blue or Black)

|      |              |  |   |                 |      |       |      |      |      |     |      |     |      |      |    |     |    |     |
|------|--------------|--|---|-----------------|------|-------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 60°C | <b>1812A</b> |  | 2 | Brown,<br>White | 328  | 100.0 | 9.8  | 4.5  | .012 | .30 | .037 | .94 | .213 | 5.41 | 33 | 108 | 54 | 177 |
|      |              |  |   |                 | 1000 | 304.8 | 30.0 | 13.6 |      |     |      |     |      |      |    |     |    |     |



BC = Bare Copper • BCC = Bare Cadmium Copper • EPDM = Ethylene-propylene-diene Monomer Rubber • HC = High-Conductivity • TC = Tinned Copper • TCB = Tinned Cadmium Bronze

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.



# Microphone and Musical Instrument Cable

Two-Conductor, Low-Impedance Cables

High-Conductivity Copper

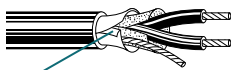


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG Stranded (19x36) HC Tinned Copper • Twisted Pair • 100% Beldfoil® Shield • Noise Reducing Tape • 24 AWG Stranded TC Drain Wire**

## High-density Polyethylene Insulation • Black PVC Jacket

|               |             |  |   |               |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|---------------|-------------|--|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| 200V RMS 75°C | <b>9452</b> |  | 2 | Black,<br>Red | U-500  | U-152.4 | 6.5  | 3.0 | .008 | .20 | .020 | .51 | .135 | 3.43 | 30 | 98 | 58 | 190 |
|               |             |  |   |               | 500    | 152.4   | 7.5  | 3.4 |      |     |      |     |      |      |    |    |    |     |
|               |             |  |   |               | U-1000 | U-304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |    |    |     |
|               |             |  |   |               | 1000   | 304.8   | 13.0 | 5.9 |      |     |      |     |      |      |    |    |    |     |



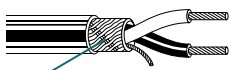
Shorting Fold

Nominal Impedance: 56 Ohms.

**24 AWG Stranded (41x40) High-conductivity Bare Copper • “French Braid” Shield (95% Coverage) • 24 AWG Stranded TC Drain Wire**

## Polyolefin Insulation • Matte PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)

|  |              |  |   |               |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|--|--------------|--|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
|  | <b>1901A</b> |  | 2 | Black,<br>Red | 500 ▲  | 152.4   | 8.0  | 3.6 | .008 | .20 | .023 | .58 | .138 | 3.51 | 26 | 86 | 48 | 156 |
|  | <b>new</b>   |  |   |               | U-1000 | U-304.8 | 15.0 | 6.8 |      |     |      |     |      |      |    |    |    |     |
|  |              |  |   |               | 1000 ▲ | 304.8   | 16.0 | 7.3 |      |     |      |     |      |      |    |    |    |     |



French Braid

For cross-connect use with FlexSnake®  
Audio Snake Cables, see page 12.21.

▲500 ft. and 1000 ft. put-ups available in Black only.

**24 AWG Stranded (27x38) High-conductivity Bare Copper • Conductors Cabled with Fillers • Bare Copper Spiral Shield (92% Coverage)**

## PVC Insulation • Matte PVC Jacket (Available in Red, Yellow, Green, Blue or Black)

|      |              |  |   |              |        |       |      |      |      |     |      |      |      |      |    |     |    |     |
|------|--------------|--|---|--------------|--------|-------|------|------|------|-----|------|------|------|------|----|-----|----|-----|
| 60°C | <b>1813A</b> |  | 2 | Red,<br>Blue | 100 •  | 30.5  | 4.0  | 1.8  | .017 | .43 | .055 | 1.40 | .236 | 5.99 | 33 | 108 | 61 | 200 |
|      |              |  |   |              | 328    | 100.0 | 10.2 | 4.6  |      |     |      |      |      |      |    |     |    |     |
|      |              |  |   |              | 500 •• | 152.4 | 16.0 | 7.3  |      |     |      |      |      |      |    |     |    |     |
|      |              |  |   |              | 1000   | 304.8 | 31.0 | 14.1 |      |     |      |      |      |      |    |     |    |     |



•100 ft. put-up available in Black only.

••500 ft. put-up available in Blue or Black only.

**22 AWG Stranded (16x34) High-conductivity Tinned Copper • Conductors Cabled • Cotton Braid • Tinned Copper Braid Shield (85% Coverage)**

## Polyethylene Insulation • Chrome PVC Jacket

|                |             |  |   |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|----------------|-------------|--|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| 1000V RMS 80°C | <b>8422</b> |  | 2 | Clear,<br>Black | 500    | 152.4   | 18.0 | 8.2  | .021 | .53 | .022 | .56 | .231 | 5.87 | 18 | 59 | 32 | 105 |
|                |             |  |   |                 | U-1000 | U-304.8 | 30.0 | 13.6 |      |     |      |     |      |      |    |    |    |     |
|                |             |  |   |                 | 1000   | 304.8   | 31.0 | 14.1 |      |     |      |     |      |      |    |    |    |     |



**20 AWG Stranded (26x34) High-conductivity TC • Cotton Wrap • Conductors Cabled • Rayon Braid • TC Braid Shield (85% Coverage)**

## Rubber Insulation • Cotton Wrap • EPDM Jacket (Available in Black, Red, Yellow or Blue)\*

|               |             |  |   |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|---------------|-------------|--|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| 600V RMS 90°C | <b>8412</b> |  | 2 | White,<br>Black | 100    | 30.5    | 5.9  | 2.7  | .023 | .58 | .035 | .89 | .262 | 6.65 | 30 | 98 | 55 | 180 |
|               |             |  |   |                 | 250    | 76.2    | 12.0 | 5.5  |      |     |      |     |      |      |    |    |    |     |
|               |             |  |   |                 | U-500  | U-152.4 | 24.0 | 10.9 |      |     |      |     |      |      |    |    |    |     |
|               |             |  |   |                 | 500    | 152.4   | 24.0 | 10.9 |      |     |      |     |      |      |    |    |    |     |
|               |             |  |   |                 | U-1000 | U-304.8 | 47.0 | 21.4 |      |     |      |     |      |      |    |    |    |     |
|               |             |  |   |                 | 1000 ▼ | 304.8   | 47.0 | 21.4 |      |     |      |     |      |      |    |    |    |     |



▼Red, Yellow or Blue available in 1000 ft. put-up only.

## Rubber Insulation • Cotton Wrap • Brown Hypalon® Jacket

|               |             |  |   |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|---------------|-------------|--|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| 600V RMS 60°C | <b>8402</b> |  | 2 | White,<br>Black | 500    | 152.4   | 27.0 | 12.3 | .023 | .58 | .035 | .89 | .263 | 6.68 | 30 | 98 | 55 | 180 |
| <b>VW-1</b>   |             |  |   |                 | U-1000 | U-304.8 | 53.0 | 24.1 |      |     |      |     |      |      |    |    |    |     |



BC = Bare Copper • EPDM = Ethylene-propylene-diene Monomer Rubber • HC = High-conductivity • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Hypalon is a DuPont trademark.



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**1-800-527-0010**

## Microphone and Musical Instrument Cable

Two-Conductor, Low-Impedance Cables

High-Conductivity Copper



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**18 AWG** Stranded (41x34) High-conductivity TC • Cotton Wrap • Conductors Cabled • Rayon Braid • TC Braid Shield (85% Coverage)

### Rubber Insulation • Cotton Wrap • Black Neoprene Jacket

|               |             |  |   |                 |       |         |      |      |      |     |      |     |      |      |    |     |    |     |
|---------------|-------------|--|---|-----------------|-------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 600V RMS 60°C | <b>8428</b> |  | 2 | White,<br>Black | 100   | 30.5    | 7.0  | 3.2  | .023 | .58 | .030 | .76 | .290 | 7.37 | 35 | 115 | 60 | 197 |
|               |             |  |   |                 | U-500 | U-152.4 | 30.0 | 13.6 |      |     |      |     |      |      |    |     |    |     |
|               |             |  |   |                 | 500   | 152.4   | 30.0 | 13.6 |      |     |      |     |      |      |    |     |    |     |
|               |             |  |   |                 | 1000  | 304.8   | 59.0 | 26.8 |      |     |      |     |      |      |    |     |    |     |



**16 AWG** Stranded (65x34) High-conductivity TC • Paper Wrap • Conductors Cabled • Rayon Braid • TC Braid Shield (85% Coverage)

### Rubber Insulation • Cotton Wrap • Brown Hypalon® Heavy-duty Jacket

|                       |             |  |   |                 |     |       |      |      |      |     |      |      |      |      |    |    |    |     |
|-----------------------|-------------|--|---|-----------------|-----|-------|------|------|------|-----|------|------|------|------|----|----|----|-----|
| 600V RMS 60°C<br>VW-1 | <b>8408</b> |  | 2 | Black,<br>White | 500 | 152.4 | 51.5 | 23.4 | .037 | .94 | .040 | 1.02 | .380 | 9.65 | 30 | 98 | 55 | 180 |
|-----------------------|-------------|--|---|-----------------|-----|-------|------|------|------|-----|------|------|------|------|----|----|----|-----|



TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Hypalon is a DuPont trademark.

## Microphone and Musical Instrument Cable

Three-Conductor, Low-Impedance Cables

High-Conductivity Copper



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG** Stranded (105x44) High-conductivity Bare Copper • Conductors Cabled with Fillers • Bare Copper Double Spiral Shield

### PVC Insulation • Matte Black PVC Jacket

|               |             |  |   |                           |      |       |      |      |      |     |      |     |      |      |    |     |     |     |
|---------------|-------------|--|---|---------------------------|------|-------|------|------|------|-----|------|-----|------|------|----|-----|-----|-----|
| 300V RMS 80°C | <b>9398</b> |  | 3 | White,<br>Green,<br>Brown | 1000 | 304.8 | 25.0 | 11.4 | .012 | .30 | .030 | .76 | .185 | 4.70 | 40 | 131 | 110 | 361 |
|---------------|-------------|--|---|---------------------------|------|-------|------|------|------|-----|------|-----|------|------|----|-----|-----|-----|



**24 AWG** Stranded (45x40) HC TCB • Cotton Serve • Cabled with Fillers • Conductive Textile Wrap (100% Coverage) • 60% TC Braid Shield

### Rubber Insulation • Cotton Spiral • Black EPDM Rubber Jacket

|           |             |  |   |                         |            |               |             |            |      |     |      |     |      |      |    |    |    |     |
|-----------|-------------|--|---|-------------------------|------------|---------------|-------------|------------|------|-----|------|-----|------|------|----|----|----|-----|
| 300V 90°C | <b>8406</b> |  | 3 | Black,<br>Red,<br>White | 100<br>500 | 30.5<br>152.4 | 4.0<br>17.5 | 1.8<br>8.0 | .016 | .41 | .025 | .64 | .223 | 5.66 | 30 | 98 | 55 | 180 |
|-----------|-------------|--|---|-------------------------|------------|---------------|-------------|------------|------|-----|------|-----|------|------|----|----|----|-----|



**20 AWG** Stranded (19x32) High-conductivity Tinned Copper • Conductors Cabled • Rayon Braid • TC Braid Shield (89% Coverage)

### Polyethylene Insulation • Chrome PVC Jacket

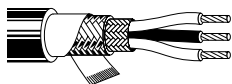
|               |             |  |   |                         |             |                |              |              |      |     |      |     |      |      |    |    |    |     |
|---------------|-------------|--|---|-------------------------|-------------|----------------|--------------|--------------|------|-----|------|-----|------|------|----|----|----|-----|
| 600V RMS 80°C | <b>8403</b> |  | 3 | Clear,<br>Black,<br>Red | 500<br>1000 | 152.4<br>304.8 | 22.5<br>45.0 | 10.2<br>20.5 | .016 | .41 | .033 | .84 | .244 | 6.20 | 25 | 82 | 45 | 148 |
|---------------|-------------|--|---|-------------------------|-------------|----------------|--------------|--------------|------|-----|------|-----|------|------|----|----|----|-----|



**20 AWG** Stranded (26x34) High-conductivity TC • Cotton Wrap • Conductors Cabled • Rayon Braid • TC Braid Shield (85% Coverage)

### Rubber Insulation • Cotton Wrap • Black EPDM Jacket

|               |             |  |   |                         |                    |                        |                     |                     |      |     |      |      |      |      |    |    |    |     |
|---------------|-------------|--|---|-------------------------|--------------------|------------------------|---------------------|---------------------|------|-----|------|------|------|------|----|----|----|-----|
| 600V RMS 90°C | <b>8423</b> |  | 3 | White,<br>Black,<br>Red | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 6.6<br>28.0<br>56.0 | 3.0<br>12.7<br>25.5 | .023 | .58 | .040 | 1.02 | .272 | 6.91 | 30 | 98 | 55 | 180 |
|---------------|-------------|--|---|-------------------------|--------------------|------------------------|---------------------|---------------------|------|-----|------|------|------|------|----|----|----|-----|



EPDM = Ethylene-propylene-diene Monomer Rubber • HC = High-conductivity • TC = Tinned Copper • TCB = Tinned Cadmium Bronze

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



By:



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1-800-527-0010

# Microphone and Musical Instrument Cable

Four-Conductor Star Quad, Low-Impedance Cables†  
High-Conductivity Copper

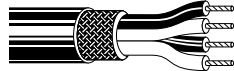


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**28 AWG Stranded (19x40) High-conductivity Silver Plated Copper Alloy • Tinned Copper Braid Shield (78% Coverage)**

**Polypropylene Insulation • Matte PVC Jacket** (Available in Red, Yellow, Blue, Beige or Black)

|                                        |              |   |                        |       |       |     |     |      |     |      |     |      |      |    |     |    |     |
|----------------------------------------|--------------|---|------------------------|-------|-------|-----|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| <b>Mini Star Quad</b><br>100V RMS 60°C | <b>1804A</b> | 4 | (2) Blue,<br>(2) White | 100 ▲ | 30.5  | 2.3 | 1.0 | .006 | .15 | .014 | .36 | .115 | 2.92 | 40 | 131 | 60 | 197 |
|                                        |              |   |                        | 500   | 152.4 | 5.0 | 2.3 |      |     |      |     |      |      |    |     |    |     |



2/c 25 AWG equivalent DCR when connected to a 3-pin XLR.

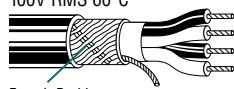
▲100 ft. put-up available in Black only.

One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.

**26 AWG Stranded (30x40) High-conductivity BC • Conductors Cabled • TC "French Braid" Shield (95% Coverage) • BC Drain Wire**

**Polyethylene Insulation • Matte PVC Jacket** (Available in Red, Green, Yellow, Blue, Gray or Black)

|               |              |   |                        |       |       |      |      |      |     |      |     |      |      |    |     |    |     |
|---------------|--------------|---|------------------------|-------|-------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 100V RMS 60°C | <b>1172A</b> | 4 | (2) Blue,<br>(2) White | 500 * | 152.4 | 13.5 | 6.1  | .011 | .28 | .030 | .76 | .190 | 4.83 | 39 | 128 | 50 | 164 |
|               |              |   |                        | 1000  | 304.8 | 27.0 | 12.3 |      |     |      |     |      |      |    |     |    |     |



French Braid

2/c 23 AWG equivalent DCR when connected to a 3-pin XLR.

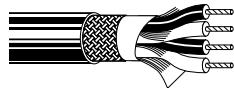
\*500 ft. put-up available in Red, Yellow or Black only.

One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.

**24 AWG Stranded (42x40) High-conductivity Bare Copper • Conductors Cabled • Tinned Copper Braid Shield (95% Coverage)**

**Polyethylene Insulation • Matte PVC Jacket** (Available in Red, Green, Yellow, Blue, Gray or Black)

|               |              |   |                        |       |       |      |      |      |     |      |      |      |      |    |     |    |     |
|---------------|--------------|---|------------------------|-------|-------|------|------|------|-----|------|------|------|------|----|-----|----|-----|
| 100V RMS 75°C | <b>1192A</b> | 4 | (2) Blue,<br>(2) White | 100 ▼ | 30.5  | 4.6  | 2.1  | .016 | .41 | .045 | 1.14 | .245 | 6.22 | 39 | 128 | 57 | 187 |
|               |              |   |                        | 500 ▼ | 152.4 | 18.5 | 8.4  |      |     |      |      |      |      |    |     |    |     |
|               |              |   |                        | 1000  | 304.8 | 37.0 | 16.8 |      |     |      |      |      |      |    |     |    |     |



2/c 21 AWG equivalent DCR when connected to a 3-pin XLR.

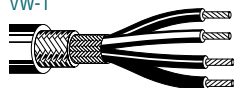
▼100 ft. put-up available in Black only. 500 ft. put-up available in Blue or Black only.

One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.

**20 AWG Stranded (19x32) High-conductivity Tinned Copper • Conductors Cabled • Rayon Braid • TC Braid Shield (85% Coverage)**

**Polyethylene Insulation • Chrome PVC Jacket**

|                                              |             |   |        |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|----------------------------------------------|-------------|---|--------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| UL AWM Style 2094<br>(300V RMS 60°C)<br>VW-1 | <b>8404</b> | 4 | Clear, | 100    | 30.5    | 5.9  | 2.7  | .016 | .41 | .032 | .81 | .252 | 6.40 | 40 | 131 | 49 | 161 |
|                                              |             |   | Black, | 500    | 152.4   | 25.0 | 11.4 |      |     |      |     |      |      |    |     |    |     |
|                                              |             |   | Red,   | U-1000 | U-304.8 | 49.0 | 22.3 |      |     |      |     |      |      |    |     |    |     |
|                                              |             |   | Green  | 1000   | 304.8   | 49.0 | 22.3 |      |     |      |     |      |      |    |     |    |     |

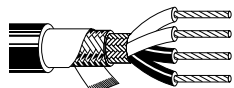


2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.

**20 AWG Stranded (26x34) High-conductivity TC • Cotton Wrap • Conductors Cabled • Rayon Braid • TC Braid Shield (85% Coverage)**

**Rubber Insulation • Cotton Wrap • Black EPDM Rubber Jacket**

|               |             |   |        |       |         |      |      |      |     |      |     |      |      |    |     |    |     |
|---------------|-------------|---|--------|-------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 600V RMS 90°C | <b>8424</b> | 4 | Black, | 100   | 30.5    | 7.5  | 3.4  | .023 | .58 | .036 | .91 | .294 | 7.47 | 47 | 154 | 59 | 194 |
|               |             |   | White, | 250   | 76.2    | 18.8 | 8.5  |      |     |      |     |      |      |    |     |    |     |
|               |             |   | Red,   | U-500 | U-152.4 | 33.0 | 15.0 |      |     |      |     |      |      |    |     |    |     |
|               |             |   | Green  | 500   | 152.4   | 32.5 | 14.8 |      |     |      |     |      |      |    |     |    |     |
|               |             |   |        | 1000  | 304.8   | 64.0 | 29.1 |      |     |      |     |      |      |    |     |    |     |

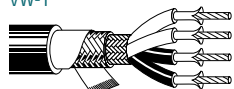


2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.

**16 AWG Stranded (65x34) High-conductivity TC • Paper Wrap • Conductors Cabled • Rayon Braid • TC Braid Shield (85% Coverage)**

**Rubber Insulation • Cotton Wrap • Black Neoprene Jacket**

|                       |             |   |        |     |      |      |      |      |     |      |      |      |       |    |     |    |     |
|-----------------------|-------------|---|--------|-----|------|------|------|------|-----|------|------|------|-------|----|-----|----|-----|
| 600V RMS 60°C<br>VW-1 | <b>8407</b> | 4 | Black, | 100 | 30.5 | 15.0 | 6.8  | .031 | .79 | .043 | 1.09 | .416 | 10.57 | 55 | 180 | 66 | 216 |
|                       |             |   | White, | 250 | 76.2 | 30.3 | 13.8 |      |     |      |      |      |       |    |     |    |     |
|                       |             |   | Red,   |     |      |      |      |      |     |      |      |      |       |    |     |    |     |
|                       |             |   | Green  |     |      |      |      |      |     |      |      |      |       |    |     |    |     |



2/c 13 AWG equivalent DCR when connected to a 3-pin XLR.

BC = Bare Copper • DCR = DC Resistance • EPDM = Ethylene-propylene-diene Monomer Rubber • HC = High-conductivity • TC = Tinned Copper

\*Capacitance between conductors. \*\*Capacitance between one conductor and other conductors connected to shield.

†Quad connection scheme: The two blue wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the two white wires (or remaining wires) are connected together to form the second conductor.

# Line Level Analog Audio Cable

## Single- and Double-Pair Cables



Belden analog audio cables are used for connecting line level audio equipment, in either permanent or semi-permanent installations. They consist of one or two individually foil-shielded, twisted pairs. Once installed, they are not intended to be moved while in service. For cables that are in motion during use, refer to the Microphone and Musical Instrument Cable section in this catalog.

Belden's analog audio cable offering consists of a selection of designs to handle a variety of audio applications. Belden part no. 8451 utilizes a paper tape separator to facilitate easy long length

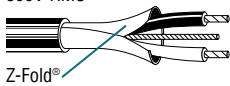
jacket stripping. Part no. 9451 comes with a bonded Beldfoil® shield so that the shield and jacket strip simultaneously with automatic stripping equipment. A special matte PVC jacket material is employed on part no. 1508A making it a highly flexible construction. Double pair cables are available in a round construction (part no. 8723) or in a ZIP cord style (part no. 1504A) for easy separation in two-channel stereo and audio hook-ups.

| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Nominal Capacitance |         |            |          |
|-------------|----------|------------------------|--------------|------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|---------------------|---------|------------|----------|
|             |          |                        |              |            | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | * pF/ Ft.           | * pF/ m | ** pF/ Ft. | ** pF/ m |

### 24 AWG Stranded (7x32) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield<sup>††</sup> • 24 AWG Stranded TC Drain Wire

#### Polypropylene Insulation • Gray PVC Jacket

|          |              |                                |   |               |                             |                  |              |            |             |             |              |           |           |
|----------|--------------|--------------------------------|---|---------------|-----------------------------|------------------|--------------|------------|-------------|-------------|--------------|-----------|-----------|
| 300V RMS | <b>1883A</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1 | Black,<br>Red | U-1000 <sup>†</sup><br>1000 | U-304.8<br>304.8 | 12.0<br>12.0 | 5.5<br>5.5 | .008<br>.20 | .020<br>.51 | .123<br>3.12 | 31<br>102 | 58<br>190 |
|----------|--------------|--------------------------------|---|---------------|-----------------------------|------------------|--------------|------------|-------------|-------------|--------------|-----------|-----------|



Z-Fold®

\*U-1000 ft. put-up also available in Brown, Red, Orange, Yellow, Green, Blue, Violet, White or Black. Jacket and shield are bonded so both can be removed with automatic stripping equipment.

For cross-connect use with 1408R (et al.) Snake Cables, see page 12.19.

#### Polyolefin Insulation • Black Matte PVC Jacket

|                       |              |  |   |               |             |                |             |            |             |             |              |           |           |
|-----------------------|--------------|--|---|---------------|-------------|----------------|-------------|------------|-------------|-------------|--------------|-----------|-----------|
| High-Flex<br>300V RMS | <b>1508A</b> |  | 1 | Black,<br>Red | 500<br>1000 | 152.4<br>304.8 | 5.5<br>12.0 | 2.5<br>5.5 | .008<br>.20 | .024<br>.61 | .131<br>3.33 | 31<br>102 | 58<br>190 |
|-----------------------|--------------|--|---|---------------|-------------|----------------|-------------|------------|-------------|-------------|--------------|-----------|-----------|

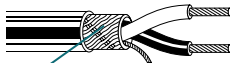


Jacket and shield are bonded so both can be removed with automatic stripping equipment.

### 24 AWG Stranded (41x40) HC Bare Copper Conductors • BC "French Braid" Shield (95% Coverage) • 24 AWG Stranded TC Drain Wire

#### Polyolefin Insulation • Matte PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)

|  |                                    |  |   |               |                           |                           |                     |                   |             |             |              |          |           |
|--|------------------------------------|--|---|---------------|---------------------------|---------------------------|---------------------|-------------------|-------------|-------------|--------------|----------|-----------|
|  | <b>1901A</b><br><small>new</small> |  | 1 | Black,<br>Red | 500 •<br>U-1000<br>1000 • | 152.4<br>U-304.8<br>304.8 | 8.0<br>15.0<br>16.0 | 3.6<br>6.8<br>7.3 | .008<br>.20 | .023<br>.58 | .138<br>3.51 | 26<br>86 | 48<br>156 |
|--|------------------------------------|--|---|---------------|---------------------------|---------------------------|---------------------|-------------------|-------------|-------------|--------------|----------|-----------|



French Braid

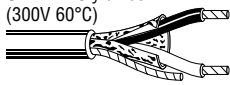
\*500 ft. and 1000 ft. put-ups available in Black only.

For cross-connect use with FlexSnake® Audio Snake Cables, see page 12.21.

### 24 AWG Stranded (7x32) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield<sup>††</sup> • 24 AWG Stranded TC Drain Wire

#### Polyethylene Insulation • Chrome PVC Jacket

|                                                     |             |                          |   |                 |                                               |                                                       |                                           |                                         |             |             |              |          |           |
|-----------------------------------------------------|-------------|--------------------------|---|-----------------|-----------------------------------------------|-------------------------------------------------------|-------------------------------------------|-----------------------------------------|-------------|-------------|--------------|----------|-----------|
| Low-Capacitance<br>UL AWM Style 2092<br>(300V 60°C) | <b>8641</b> | NEC:<br>CM<br>CEC:<br>CM | 1 | Black,<br>Clear | 100<br>U-500<br>500<br>U-1000<br>1000<br>2000 | 30.5<br>U-152.4<br>152.4<br>U-304.8<br>304.8<br>609.6 | 2.1<br>7.0<br>7.0<br>13.0<br>14.0<br>26.0 | 1.0<br>3.2<br>3.2<br>5.9<br>6.4<br>11.8 | .016<br>.41 | .025<br>.64 | .168<br>4.27 | 22<br>72 | 42<br>138 |
|-----------------------------------------------------|-------------|--------------------------|---|-----------------|-----------------------------------------------|-------------------------------------------------------|-------------------------------------------|-----------------------------------------|-------------|-------------|--------------|----------|-----------|



For Plenum versions of 8641, see 88641 or 82641.

#### Plenum • FEP Insulation • Red FEP Jacket

|                       |              |                                |   |               |                                              |                        |                    |                   |             |             |              |           |           |
|-----------------------|--------------|--------------------------------|---|---------------|----------------------------------------------|------------------------|--------------------|-------------------|-------------|-------------|--------------|-----------|-----------|
| 300V RMS, Non-conduit | <b>88641</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | Black,<br>Red | 100<br>500 <sup>†</sup><br>1000 <sup>†</sup> | 30.5<br>152.4<br>304.8 | 2.4<br>6.0<br>11.0 | 1.1<br>2.7<br>5.0 | .006<br>.15 | .014<br>.36 | .106<br>2.69 | 31<br>102 | 59<br>194 |
|-----------------------|--------------|--------------------------------|---|---------------|----------------------------------------------|------------------------|--------------------|-------------------|-------------|-------------|--------------|-----------|-----------|



#### Plenum • FEP Insulation • Natural Flamarrest® Jacket

|                       |              |                                |   |               |                                          |                  |             |            |             |             |              |           |           |
|-----------------------|--------------|--------------------------------|---|---------------|------------------------------------------|------------------|-------------|------------|-------------|-------------|--------------|-----------|-----------|
| 300V RMS, Non-conduit | <b>82641</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 | Black,<br>Red | U-1000 <sup>†</sup><br>1000 <sup>†</sup> | U-304.8<br>304.8 | 9.0<br>10.0 | 4.1<br>4.5 | .006<br>.15 | .014<br>.36 | .106<br>2.69 | 31<br>102 | 59<br>194 |
|-----------------------|--------------|--------------------------------|---|---------------|------------------------------------------|------------------|-------------|------------|-------------|-------------|--------------|-----------|-----------|



BC = Bare Copper • HC = High-Conductivity • TC = Tinned Copper

\*Capacitance between conductors. \*\*Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown. <sup>††</sup>Beldfoil provides high reliability with ease of termination.



By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

# Line Level Analog Audio Cable

Single- and Double-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs • Overall 100% Beldfoil® Shield • 24 AWG Stranded TC Drain Wire**

**Polypropylene Insulation • PVC Jacket** (Available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black)

|          |              |            |   |               |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|----------|--------------|------------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| 300V RMS | <b>1266A</b> | NEC:<br>CM | 1 | Black,<br>Red | U-1000 | U-304.8 | 15.0 | 6.8 | .010 | .25 | .020 | .51 | .145 | 3.68 | 30 | 99 | 54 | 177 |
|          |              | CEC:<br>CM |   |               | 1000 ▲ | 304.8   | 15.0 | 6.8 |      |     |      |     |      |      |    |    |    |     |

▲1000 ft. put-up available in Black only.

Unique design features lower capacitance and greater flexibility than standard audio pair constructions.

**PVC Insulation • PVC Jacket** (Available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black)

|           |              |            |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|-----------|--------------|------------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V 90°C | <b>1503A</b> | NEC:<br>CM | 1 | Black,<br>Red | U-1000 | U-304.8 | 16.0 | 7.3 | .010 | .25 | .020 | .51 | .142 | 3.61 | 53 | 174 | 97 | 318 |
|           |              | CEC:<br>CM |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |

**22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall 100% Beldfoil Shield • 22 AWG Solid TC Drain Wire**

**Polypropylene Insulation • Gray or Black PVC Jacket**

|                |             |            |   |               |          |         |      |     |      |     |      |     |      |      |    |     |    |     |
|----------------|-------------|------------|---|---------------|----------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS 105°C | <b>8450</b> | NEC:<br>CM | 1 | Black,<br>Red | U-500 •  | U-152.4 | 7.0  | 3.2 | .007 | .18 | .018 | .46 | .118 | 3.00 | 40 | 131 | 76 | 249 |
|                |             | CEC:<br>CM |   |               | U-1000 • | U-304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                |             |            |   |               | 1000     | 304.8   | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |

Z-Fold®

•U-500 ft. and U-1000 ft. put-ups available in Black only.

Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables.

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire**

**Polypropylene Insulation • Paper Wrap • Gray or Black PVC Jacket**

|          |             |                 |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|----------|-------------|-----------------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS | <b>8451</b> | NEC:<br>CMR     | 1 | Black,<br>Red | 100 ▼  | 30.5    | 2.7  | 1.2 | .008 | .20 | .020 | .51 | .138 | 3.51 | 34 | 111 | 67 | 220 |
|          |             | CEC:<br>CMG FT4 |   |               | U-500  | U-152.4 | 7.5  | 3.4 |      |     |      |     |      |      |    |     |    |     |
|          |             |                 |   |               | 500    | 152.4   | 8.0  | 3.6 |      |     |      |     |      |      |    |     |    |     |
|          |             |                 |   |               | U-1000 | U-304.8 | 14.0 | 6.4 |      |     |      |     |      |      |    |     |    |     |
|          |             |                 |   |               | 1000   | 304.8   | 15.0 | 6.8 |      |     |      |     |      |      |    |     |    |     |

▼100 ft. put-up available in Black only.

Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables. Unique paper separator facilitates jacket stripping.

**Polypropylene Insulation • PVC Jacket** (Available in Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Violet or White)

|          |             |                 |   |               |          |         |      |      |      |     |      |     |      |      |    |     |    |     |
|----------|-------------|-----------------|---|---------------|----------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS | <b>9451</b> | NEC:<br>CMR     | 1 | Black,<br>Red | U-500 *  | U-152.4 | 8.0  | 3.6  | .008 | .20 | .020 | .51 | .135 | 3.43 | 34 | 111 | 67 | 220 |
|          |             | CEC:<br>CMR FT4 |   |               | 500 *    | 152.4   | 8.0  | 3.6  |      |     |      |     |      |      |    |     |    |     |
|          |             |                 |   |               | T-1000 * | T-304.8 | 17.0 | 7.7  |      |     |      |     |      |      |    |     |    |     |
|          |             |                 |   |               | U-1000   | U-304.8 | 15.0 | 6.8  |      |     |      |     |      |      |    |     |    |     |
|          |             |                 |   |               | 5000     | 1524.0  | 74.5 | 33.9 |      |     |      |     |      |      |    |     |    |     |

For cross-connect use with 1814R (et al.)  
Snake Cables, see page 12.22.

\*U-500 ft., 500 ft. and T-1000 ft. put-ups available in Gray only.

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

# Line Level Analog Audio Cable

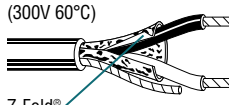
Single- and Double-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

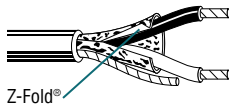
**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil® Shield • 22 AWG Stranded TC Drain Wire (cont'd)**

## Polyethylene Insulation • Chrome PVC Jacket

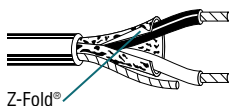
|                                                                                                                                                           |             |      |   |                 |         |         |       |      |      |     |      |     |      |      |    |    |    |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|---|-----------------|---------|---------|-------|------|------|-----|------|-----|------|------|----|----|----|-----|
| <b>Low-Capacitance</b><br>UL AWM Style 2092<br>(300V 60°C)<br><br>Z-Fold® | <b>8761</b> | NEC: | 1 | Black,<br>Clear | U-500   | U-152.4 | 9.0   | 4.1  | .016 | .41 | .025 | .64 | .175 | 4.45 | 24 | 79 | 47 | 154 |
|                                                                                                                                                           |             | CM   |   |                 | 500     | 152.4   | 9.0   | 4.1  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                           |             | CEC: |   |                 | U-1000  | U-304.8 | 17.0  | 7.7  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                           |             | CM   |   |                 | 1000    | 304.8   | 18.0  | 8.2  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                           |             |      |   |                 | 2000    | 609.6   | 34.0  | 15.5 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                           |             |      |   |                 | 5000    | 1524.0  | 90.0  | 40.9 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                           |             |      |   |                 | 10000†† | 3048.0  | 170.0 | 77.3 |      |     |      |     |      |      |    |    |    |     |

For Plenum versions of 8761, see 88761, 87761 or 82761.

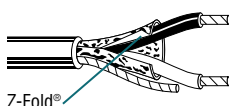
## Plenum • FEP Insulation • Red FEP Jacket

|                                                                                                                      |              |         |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|----------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>88761</b> | NEC:    | 1 | Black,<br>Red | 100    | 30.5    | 2.7  | 1.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                                      |              | CMP     |   |               | U-500  | U-152.4 | 7.0  | 3.2 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                      |              | CEC:    |   |               | 500†   | 152.4   | 7.5  | 3.4 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                      |              | CMP FT6 |   |               | U-1000 | U-304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                      |              |         |   |               | 1000†  | 304.8   | 14.0 | 6.4 |      |     |      |     |      |      |    |     |    |     |

## Plenum • FEP Insulation • Red Fluorocopolymer Jacket

|                                                                                                                      |              |         |   |               |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|----------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|-------|-------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>87761</b> | NEC:    | 1 | Black,<br>Red | 500†  | 152.4 | 7.0  | 3.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                                      |              | CMP     |   |               | 1000† | 304.8 | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                      |              | CEC:    |   |               |       |       |      |     |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                      |              | CMP FT6 |   |               |       |       |      |     |      |     |      |     |      |      |    |     |    |     |

## Plenum • FEP Insulation • Natural Flamarrest® Jacket

|                                                                                                                        |              |         |   |               |         |         |      |     |      |     |      |     |      |      |    |     |    |     |
|------------------------------------------------------------------------------------------------------------------------|--------------|---------|---|---------------|---------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit<br><br>Z-Fold® | <b>82761</b> | NEC:    | 1 | Black,<br>Red | U-500†  | U-152.4 | 6.5  | 3.0 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
|                                                                                                                        |              | CMP     |   |               | U-1000† | U-304.8 | 12.0 | 5.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                        |              | CEC:    |   |               | 1000†   | 304.8   | 13.0 | 5.9 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                        |              | CMP FT6 |   |               |         |         |      |     |      |     |      |     |      |      |    |     |    |     |

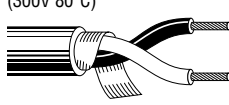
## Polyethylene Insulation • Chrome PVC Jacket

|                                                                                                                                                  |             |      |   |                 |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|---|-----------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|----|----|-----|
| <b>Low-Capacitance</b><br>UL AWM Style 2092<br>(300V 60°C)<br> | <b>9461</b> | NEC: | 1 | Black,<br>Clear | U-500  | U-152.4 | 11.0 | 5.0 | .016 | .41 | .026 | .66 | .180 | 4.57 | 24 | 79 | 47 | 154 |
|                                                                                                                                                  |             | CM   |   |                 | U-1000 | U-304.8 | 21.0 | 9.6 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                  |             | CEC: |   |                 |        |         |      |     |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                                                  |             | CM   |   |                 |        |         |      |     |      |     |      |     |      |      |    |    |    |     |

The jacket and shield are bonded so both can be removed on automatic stripping equipment.

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • 85% Tinned Copper Spiral Wrapped Shield**

## PVC Insulation • Chrome PVC Jacket

|                                                                                                                        |             |         |   |               |        |         |      |     |      |     |      |     |      |      |    |     |    |     |
|------------------------------------------------------------------------------------------------------------------------|-------------|---------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
| UL AWM Style 2095<br>(300V 80°C)<br> | <b>8737</b> | NEC:    | 1 | Black,<br>Red | U-500  | U-152.4 | 10.5 | 4.8 | .015 | .38 | .025 | .64 | .180 | 4.57 | 40 | 131 | 70 | 230 |
|                                                                                                                        |             | CMG     |   |               | 500    | 152.4   | 10.0 | 4.5 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                        |             | CEC:    |   |               | U-1000 | U-304.8 | 20.0 | 9.1 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                        |             | CMG FT4 |   |               | 1000   | 304.8   | 20.0 | 9.1 |      |     |      |     |      |      |    |     |    |     |

TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

†† Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.



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1-800-527-0010

# Line Level Analog Audio Cable

Single- and Double-Pair Cables

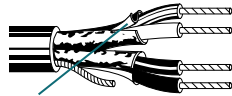


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG** Stranded (7x30) Tinned Copper • Twisted Pairs • Individually Shielded w/ 100% Beldfoil® • 24 AWG Stranded TC Common Drain Wire

## Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

|               |             |            |   |                           |        |         |       |      |          |          |      |      |    |     |    |     |    |     |
|---------------|-------------|------------|---|---------------------------|--------|---------|-------|------|----------|----------|------|------|----|-----|----|-----|----|-----|
| 300V RMS 60°C | <b>8723</b> | NEC:<br>CM | 2 | Red/Black,<br>Green/White | 100    | 30.5    | 2.3   | 1.0  | 15.0Ω/M' | 16.6Ω/M' | .168 | 4.27 | 45 | 66% | 35 | 115 | 62 | 203 |
|               |             | CEC:<br>CM |   |                           | U-500  | U-152.4 | 10.5  | 4.8  | 49.2Ω/km | 54.5Ω/km |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | 500    | 152.4   | 10.0  | 4.5  |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | U-1000 | U-304.8 | 20.0  | 9.1  |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | 1000   | 304.8   | 20.0  | 9.1  |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | 1640   | 499.9   | 32.8  | 14.9 |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | U-2000 | U-609.6 | 40.0  | 18.2 |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | 2000   | 609.6   | 40.0  | 18.2 |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | 3280   | 999.7   | 65.6  | 29.8 |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | 5000   | 1524.0  | 95.0  | 43.2 |          |          |      |      |    |     |    |     |    |     |
|               |             |            |   |                           | 10000  | 3048.0  | 200.0 | 90.9 |          |          |      |      |    |     |    |     |    |     |

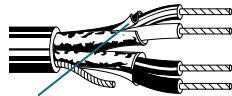


Z-Fold®

For Plenum versions of 8723, see 88723, 87723 or 82723.

## Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

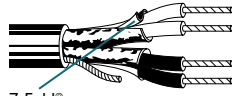
|                       |              |                 |   |                           |      |       |      |     |          |          |      |      |    |     |    |     |    |     |
|-----------------------|--------------|-----------------|---|---------------------------|------|-------|------|-----|----------|----------|------|------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88723</b> | NEC:<br>CMP     | 2 | Red/Black,<br>Green/White | 100  | 30.5  | 3.4  | 1.5 | 16.0Ω/M' | 14.7Ω/M' | .148 | 3.76 | 40 | 69% | 35 | 115 | 67 | 220 |
|                       |              | CEC:<br>CMP FT6 |   |                           | 500  | 152.4 | 11.0 | 5.0 | 52.5Ω/km | 48.2Ω/km |      |      |    |     |    |     |    |     |
|                       |              |                 |   |                           | 1000 | 304.8 | 21.0 | 9.5 |          |          |      |      |    |     |    |     |    |     |



Z-Fold®

## Plenum • FEP Insulation • Red Fluorocopolymer Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

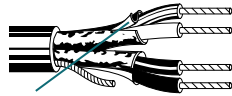
|                       |              |                 |   |                           |       |       |      |     |          |          |      |      |    |     |    |     |    |     |
|-----------------------|--------------|-----------------|---|---------------------------|-------|-------|------|-----|----------|----------|------|------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>87723</b> | NEC:<br>CMP     | 2 | Red/Black,<br>Green/White | 500†  | 152.4 | 11.0 | 5.0 | 16.0Ω/M' | 14.7Ω/M' | .148 | 3.76 | 40 | 69% | 35 | 115 | 67 | 220 |
|                       |              | CEC:<br>CMP FT6 |   |                           | 1000† | 304.8 | 20.0 | 9.1 | 52.5Ω/km | 48.2Ω/km |      |      |    |     |    |     |    |     |



Z-Fold®

## Plenum • Halar® Insulation • Natural Flamarrest® Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

|                       |              |                 |   |                           |         |         |      |      |          |          |      |      |    |     |    |     |    |     |
|-----------------------|--------------|-----------------|---|---------------------------|---------|---------|------|------|----------|----------|------|------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>82723</b> | NEC:<br>CMP     | 2 | Red/Black,<br>Green/White | U-500†  | U-152.4 | 10.0 | 4.5  | 14.7Ω/M' | 16.6Ω/M' | .148 | 3.76 | 36 | 62% | 43 | 141 | 75 | 246 |
|                       |              | CEC:<br>CMP FT6 |   |                           | U-1000  | U-304.8 | 19.0 | 8.6  | 48.2Ω/km | 54.5Ω/km |      |      |    |     |    |     |    |     |
|                       |              |                 |   |                           | 1000†   | 304.8   | 20.0 | 9.1  |          |          |      |      |    |     |    |     |    |     |
|                       |              |                 |   |                           | U-2000† | U-609.6 | 38.0 | 17.3 |          |          |      |      |    |     |    |     |    |     |



Z-Fold®

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

Halar is an Ausimont Corporation trademark.



# Line Level Analog Audio Cable

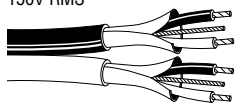
## Single- and Double-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG Stranded (19x34) Tinned Copper Conductors • Dual Twisted Pairs • Overall 100% Beldfoil® Shield • 24 AWG Stranded TC Drain Wire**

**PVC Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)**

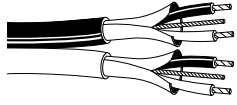
|                                                                                                                     |              |            |   |               |        |         |      |      |      |     |      |     |      |      |    |     |     |     |
|---------------------------------------------------------------------------------------------------------------------|--------------|------------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|-----|-----|
| <b>Stereo Audio</b><br>150V RMS<br> | <b>1504A</b> | NEC:       | 2 | Black,<br>Red | U-1000 | U-304.8 | 33.0 | 15.0 | .010 | .25 | .020 | .51 | .143 | 3.63 | 57 | 187 | 100 | 328 |
|                                                                                                                     |              | CM         |   |               | 2000 * | 609.8   | 68.0 | 30.9 |      |     |      |     | x    | x    |    |     |     |     |
|                                                                                                                     |              | CEC:<br>CM |   |               |        |         |      |      |      |     |      |     | .286 | 7.26 |    |     |     |     |

\*2000 ft. put-up available in Red & Gray or Red & Green only.

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield • 22 AWG Stranded TC Drain Wire**

**Polyolefin Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)**

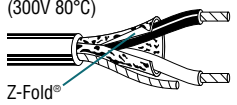
|                                                                                                       |                     |                 |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------------|---------------------|-----------------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| <b>300V 105°C</b><br> | <b>9451D</b><br>new | NEC:            | 2 | Black,<br>Red | U-1000 | U-304.8 | 28.0 | 12.7 | .008 | .20 | .020 | .51 | .135 | 3.43 | 34 | 112 | 67 | 220 |
|                                                                                                       |                     | CMR             |   |               | 2000 * | 620.8   | 60.0 | 27.3 |      |     |      |     | x    | x    |    |     |    |     |
|                                                                                                       |                     | CEC:<br>CMG FT4 |   |               |        |         |      |      |      |     |      |     | .270 | 6.86 |    |     |    |     |

\*2000 ft. put-up available in Red & Green only.

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

**20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**

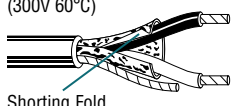
**PVC Insulation • Beige PVC Jacket**

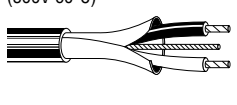
|                                                                                                                               |             |         |   |               |        |         |      |      |      |     |      |     |      |      |    |     |     |     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|-----|-----|
| <b>UL AWM Style 2464</b><br>(300V 80°C)<br> | <b>9154</b> | NEC:    | 1 | Black,<br>Red | U-500  | U-152.4 | 11.5 | 5.2  | .014 | .36 | .031 | .79 | .198 | 5.03 | 60 | 197 | 100 | 328 |
|                                                                                                                               |             | CMG     |   |               | 500    | 152.4   | 12.0 | 5.5  |      |     |      |     |      |      |    |     |     |     |
|                                                                                                                               |             | CEC:    |   |               | U-1000 | U-304.8 | 23.0 | 10.5 |      |     |      |     |      |      |    |     |     |     |
|                                                                                                                               |             | CMG FT4 |   |               | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |     |     |

Z-Fold®

9154 has 22 AWG stranded tinned copper drain wire.

**Polyethylene Insulation • Chrome PVC Jacket**

|                                                                                                                               |             |      |   |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| <b>UL AWM Style 2092</b><br>(300V 60°C)<br> | <b>8762</b> | NEC: | 1 | Black,<br>Clear | 100    | 30.5    | 3.2  | 1.5  | .016 | .41 | .028 | .71 | .204 | 5.18 | 27 | 89 | 49 | 161 |
|                                                                                                                               |             | CM   |   |                 | 250    | 76.2    | 6.3  | 2.8  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             | CEC: |   |                 | U-500  | U-152.4 | 12.0 | 5.5  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             | CM   |   |                 | 500    | 152.4   | 12.0 | 5.5  |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             |      |   |                 | U-1000 | U-304.8 | 23.0 | 10.5 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             |      |   |                 | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |    |    |     |
|                                                                                                                               |             |      |   |                 | 2000   | 609.6   | 46.0 | 20.9 |      |     |      |     |      |      |    |    |    |     |

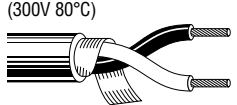
|                                                                                                                               |             |      |   |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| <b>UL AWM Style 2092</b><br>(300V 60°C)<br> | <b>9464</b> | NEC: | 1 | Black,<br>Clear | U-500  | U-152.4 | 16.5 | 7.5  | .016 | .41 | .035 | .89 | .214 | 5.44 | 27 | 89 | 49 | 161 |
|                                                                                                                               |             | CM   |   |                 | U-1000 | U-304.8 | 33.0 | 15.0 |      |     |      |     |      |      |    |    |    |     |

CEC:  
CM

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

**20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pair • 89% Tinned Copper Spiral Wrapped Shield**

**PVC Insulation • Chrome PVC Jacket**

|                                                                                                                               |             |                 |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| <b>UL AWM Style 2095</b><br>(300V 80°C)<br> | <b>8759</b> | NEC:            | 1 | Black,<br>Red | U-500  | U-152.4 | 13.0 | 5.9  | .016 | .41 | .025 | .64 | .199 | 5.05 | 47 | 154 | 79 | 259 |
|                                                                                                                               |             | CMG             |   |               | U-1000 | U-304.8 | 25.0 | 11.4 |      |     |      |     |      |      |    |     |    |     |
|                                                                                                                               |             | CEC:<br>CMG FT4 |   |               | 1000   | 304.8   | 25.0 | 11.4 |      |     |      |     |      |      |    |     |    |     |

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



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**1-800-527-0010**

# Line Level Analog Audio Cable

Single- and Double-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil® Shield • 20 AWG Stranded TC Drain Wire**

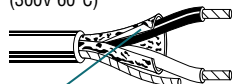
## Polyethylene Insulation • Chrome PVC Jacket

|                                  |             |            |   |                 |        |         |      |      |      |     |      |     |      |      |    |    |    |     |
|----------------------------------|-------------|------------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| UL AWM Style 2092<br>(300V 60°C) | <b>9460</b> | NEC:<br>CM | 1 | Black,<br>Clear | U-500  | U-152.4 | 18.5 | 8.4  | .019 | .48 | .030 | .76 | .230 | 5.84 | 24 | 79 | 44 | 144 |
|                                  |             | CEC:<br>CM |   |                 | U-1000 | U-304.8 | 36.0 | 16.4 |      |     |      |     |      |      |    |    |    |     |



The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

|                                                            |             |            |   |                 |        |         |       |       |      |     |      |     |      |      |    |    |    |     |
|------------------------------------------------------------|-------------|------------|---|-----------------|--------|---------|-------|-------|------|-----|------|-----|------|------|----|----|----|-----|
| <b>Low-Capacitance</b><br>UL AWM Style 2092<br>(300V 60°C) | <b>8760</b> | NEC:<br>CM | 1 | Black,<br>Clear | 250    | 76.2    | 6.8   | 3.1   | .019 | .48 | .028 | .71 | .222 | 5.64 | 24 | 79 | 44 | 144 |
|                                                            |             | CEC:<br>CM |   |                 | U-500  | U-152.4 | 13.0  | 5.9   |      |     |      |     |      |      |    |    |    |     |
|                                                            |             |            |   |                 | 500    | 152.4   | 13.0  | 5.9   |      |     |      |     |      |      |    |    |    |     |
|                                                            |             |            |   |                 | U-1000 | U-304.8 | 26.0  | 11.8  |      |     |      |     |      |      |    |    |    |     |
|                                                            |             |            |   |                 | 1000   | 304.8   | 25.0  | 11.4  |      |     |      |     |      |      |    |    |    |     |
|                                                            |             |            |   |                 | 2000   | 609.6   | 50.0  | 22.7  |      |     |      |     |      |      |    |    |    |     |
|                                                            |             |            |   |                 | 5000   | 1524.0  | 135.0 | 61.4  |      |     |      |     |      |      |    |    |    |     |
|                                                            |             |            |   |                 | 10000  | 3048.0  | 260.0 | 118.2 |      |     |      |     |      |      |    |    |    |     |



Shorting Fold

For Plenum versions of 8760,  
see 88760, 87760 or 82760.

**18 AWG Stranded (19x30) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**

## Plenum • FEP Insulation • Red FEP Jacket

|                       |              |                 |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------|--------------|-----------------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88760</b> | NEC:<br>CMP     | 1 | Black,<br>Red | 100    | 30.5    | 3.7  | 1.7  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|                       |              | CEC:<br>CMP FT6 |   |               | U-500  | U-152.4 | 12.5 | 5.7  |      |     |      |     |      |      |    |     |    |     |
|                       |              |                 |   |               | 500†   | 152.4   | 13.0 | 5.9  |      |     |      |     |      |      |    |     |    |     |
|                       |              |                 |   |               | U-1000 | U-304.8 | 24.0 | 10.9 |      |     |      |     |      |      |    |     |    |     |
|                       |              |                 |   |               | 1000†  | 304.8   | 24.0 | 10.9 |      |     |      |     |      |      |    |     |    |     |



Z-Fold®

## Plenum • FEP Insulation • Red Fluorocopolymer Jacket

|                       |              |                 |   |               |       |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------|--------------|-----------------|---|---------------|-------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>87760</b> | NEC:<br>CMP     | 1 | Black,<br>Red | U-500 | U-152.4 | 12.0 | 5.5  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|                       |              | CEC:<br>CMP FT6 |   |               | 500†  | 152.4   | 12.5 | 5.7  |      |     |      |     |      |      |    |     |    |     |
|                       |              |                 |   |               | 1000† | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |    |     |



Z-Fold®

## Plenum • FEP Insulation • Natural Flamarrest® Jacket

|                       |              |                 |   |               |         |         |      |      |      |     |      |     |      |      |    |     |    |     |
|-----------------------|--------------|-----------------|---|---------------|---------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>82760</b> | NEC:<br>CMP     | 1 | Black,<br>Red | U-500†  | U-152.4 | 11.5 | 5.2  | .007 | .18 | .014 | .36 | .150 | 3.81 | 51 | 167 | 97 | 318 |
|                       |              | CEC:<br>CMP FT6 |   |               | U-1000† | U-304.8 | 22.0 | 10.0 |      |     |      |     |      |      |    |     |    |     |
|                       |              |                 |   |               | 1000†   | 304.8   | 23.0 | 10.5 |      |     |      |     |      |      |    |     |    |     |

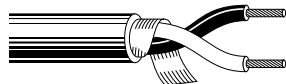


Z-Fold®

**18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair • 85% Tinned Copper Spiral Wrapped Shield**

## PVC Insulation • Chrome PVC Jacket

|               |             |                 |   |               |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|---------------|-------------|-----------------|---|---------------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS 60°C | <b>8790</b> | NEC:<br>CMG     | 1 | Red,<br>White | U-500  | U-152.4 | 17.0 | 7.7  | .022 | .56 | .028 | .71 | .241 | 6.12 | 53 | 174 | 92 | 302 |
|               |             | CEC:<br>CMG FT4 |   |               | 500    | 152.4   | 17.5 | 8.0  |      |     |      |     |      |      |    |     |    |     |
|               |             |                 |   |               | U-1000 | U-304.8 | 34.0 | 15.5 |      |     |      |     |      |      |    |     |    |     |
|               |             |                 |   |               | 1000   | 304.8   | 35.0 | 15.9 |      |     |      |     |      |      |    |     |    |     |



TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

# Line Level Analog Audio Cable

Single- and Double-Pair Cables

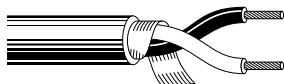


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**16 AWG** Stranded (19x29) Tinned Copper Conductors • Twisted Pair • 85% Tinned Copper Spiral Wrapped Shield

## PVC Insulation • Chrome PVC Jacket

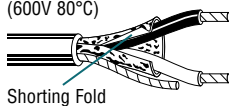
|               |             |         |   |        |        |         |      |      |      |     |      |     |      |      |    |     |    |     |
|---------------|-------------|---------|---|--------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
| 300V RMS 60°C | <b>8780</b> | NEC:    | 1 | Black, | 500    | 152.4   | 23.5 | 10.7 | .023 | .58 | .030 | .76 | .280 | 7.11 | 57 | 187 | 98 | 322 |
|               |             | CMG     |   | White  | U-1000 | U-304.8 | 45.0 | 20.5 |      |     |      |     |      |      |    |     |    |     |
|               |             | CEC:    |   |        | 1000   | 304.8   | 46.0 | 20.9 |      |     |      |     |      |      |    |     |    |     |
|               |             | CMG FT4 |   |        |        |         |      |      |      |     |      |     |      |      |    |     |    |     |



**16 AWG** Stranded (19x29) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil® Shield • 18 AWG Stranded TC Drain Wire

## Polyethylene Insulation • Chrome PVC Jacket

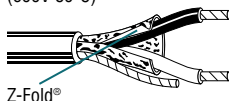
|                        |             |         |   |        |        |         |       |       |      |     |      |     |      |      |    |    |    |     |
|------------------------|-------------|---------|---|--------|--------|---------|-------|-------|------|-----|------|-----|------|------|----|----|----|-----|
| <b>Low-Capacitance</b> | <b>8719</b> | NEC:    | 1 | Black, | U-500  | U-152.4 | 24.5  | 11.1  | .032 | .81 | .032 | .81 | .313 | 7.95 | 23 | 75 | 44 | 144 |
| UL AWM Style 20253     |             | CM, CL2 |   | Clear  | 500    | 152.4   | 24.5  | 11.1  |      |     |      |     |      |      |    |    |    |     |
| (600V 80°C)            |             | CEC:    |   |        | U-1000 | U-304.8 | 47.0  | 21.4  |      |     |      |     |      |      |    |    |    |     |
|                        |             | CM      |   |        | 1000   | 304.8   | 49.0  | 22.3  |      |     |      |     |      |      |    |    |    |     |
|                        |             |         |   |        | 2000   | 609.6   | 100.0 | 45.5  |      |     |      |     |      |      |    |    |    |     |
|                        |             |         |   |        | 5000   | 1524.0  | 245.0 | 111.4 |      |     |      |     |      |      |    |    |    |     |
|                        |             |         |   |        | 10000  | 3048.0  | 430.0 | 195.5 |      |     |      |     |      |      |    |    |    |     |



**14 AWG** Stranded (19x27) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield • 16 AWG Stranded TC Drain Wire

## Polyethylene Insulation • Chrome PVC Jacket

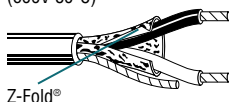
|                        |             |         |   |        |       |         |       |      |      |     |      |     |      |      |    |    |    |     |
|------------------------|-------------|---------|---|--------|-------|---------|-------|------|------|-----|------|-----|------|------|----|----|----|-----|
| <b>Low-Capacitance</b> | <b>8720</b> | NEC:    | 1 | Black, | U-500 | U-152.4 | 34.5  | 15.7 | .032 | .81 | .035 | .89 | .355 | 9.02 | 24 | 79 | 47 | 154 |
| UL AWM Style 20253     |             | CM, CL2 |   | Clear  | 500   | 152.4   | 34.0  | 15.5 |      |     |      |     |      |      |    |    |    |     |
| (600V 80°C)            |             | CEC:    |   |        | 1000  | 304.8   | 71.0  | 32.3 |      |     |      |     |      |      |    |    |    |     |
|                        |             | CM      |   |        | 2000  | 609.6   | 138.0 | 62.7 |      |     |      |     |      |      |    |    |    |     |



**12 AWG** Stranded (19x25) Tinned Copper Conductors • Twisted Pair • Overall 100% Beldfoil Shield • 14 AWG Stranded TC Drain Wire

## Polyethylene Insulation • Chrome PVC Jacket

|                        |             |         |   |        |       |         |       |      |      |     |      |      |      |       |    |    |    |     |
|------------------------|-------------|---------|---|--------|-------|---------|-------|------|------|-----|------|------|------|-------|----|----|----|-----|
| <b>Low-Capacitance</b> | <b>8718</b> | NEC     | 1 | Black, | U-500 | U-152.4 | 48.5  | 22.0 | .037 | .94 | .040 | 1.02 | .400 | 10.16 | 25 | 82 | 49 | 161 |
| UL AWM Style 20253     |             | CM, CL2 |   | Clear  | 500   | 152.4   | 51.0  | 23.2 |      |     |      |      |      |       |    |    |    |     |
| (600V 80°C)            |             | CEC:    |   |        | 1000  | 304.8   | 100.0 | 45.5 |      |     |      |      |      |       |    |    |    |     |
|                        |             | CM      |   |        | 2000  | 609.6   | 198.0 | 90.0 |      |     |      |      |      |       |    |    |    |     |



TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



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1-800-527-0010

# Analog Multi-Pair Snake Cable

## High-Flex and NEC Rated Cables



Especially designed for the broadcast industry, Belden's full family of multi-pair audio "Snake" cables feature options and construction for virtually every application.

### Applications

Snake cables are used to connect multiple audio channels in low-level (microphone) and high-level (line) componentry such as console board equipment for recording studios, radio television stations, post-production facilities, and sound system installations. With Belden's individually shielded and jacketed snakes, pairs can be split out of the overall jacket for any length and connectorized directly without the need for heat shrink tubing or costly and time-consuming preparation. 22 AWG and 24 AWG sizes are also ideal for punch down connector applications.

### Numbered and Color Coded

Jacketed pairs are individually numbered and color coded (following the familiar resistor color code) for easy identification.

### Low-Capacitance Design

Belden's 1200 Series Snake Cables feature a low-capacitance design in a flexible, high-performance construction.

### New "French Braid" Shield

Belden's patented "French Braid" shield is a double spiral (double serve) bare copper shield with the two spirals tied together by one weave. This improves flex life over standard spiral shields, improves flexibility over conventional braid shields, and lowers microphonic or triboelectric noise.

The "French Braid" is easy to terminate since it is not fully woven. It also provides for lower DC loop resistance than a single spiral braid. The "French Braid" is featured on Belden's FleXsnake® Cables (1900 Series) and Quad Snake Cables (7880 Series).

## How to Choose a Snake Cable

### Permanent Installations

For installed jobs, where you must have an NEC rating, choose your preferred pair-count from within one of the following Belden® snake cable series:

#### 1400R Series Page 12.19

CMR Rated

24 AWG

Individually Shielded and Jacketed Pairs

#### 1500C Series Page 12.20

Flexible, CM Rated

24 AWG

Individually Shielded and Jacketed Pairs

#### 1800R Series Page 12.22

CMR Rated

22 AWG

Individually Shielded and Jacketed Pairs

#### 8770/9760 Series Page 12.24

CM Rated

22 AWG

Individually Shielded Pairs

#### 80000 Series Page 12.25

CMP Rated (Plenum-Rated)

22 AWG

Individually Shielded Pairs

#### 6540PA Series Page 12.26

CMP Rated (Plenum-Rated)

22 AWG

Individually Shielded Pairs

### Temporary Installations or Field Use

For non-installed jobs, where cable flexibility is more important than NEC rating, choose your preferred pair-count from these snake cables series:

#### 1500C Series Page 12.20

Flexible, CM Rated

24 AWG

Individually Shielded and Jacketed Pairs

#### 1200B Series Page 12.23

Flexible, Low-Capacitance

22 AWG

Individually Shielded and Jacketed Pairs

#### 1900A Series Page 12.21

Super-Flexible

24 AWG

Individually Shielded and Jacketed Pairs with "French Braid" Shield

#### 7880A Series Page 12.18

Super-Flexible Star Quads

26 AWG

Individually Shielded and Jacketed Quads with "French Braid" Shield

## Analog Multi-Quad Snake Cable

Super-Flexible, High-Performance Star Quad Cables  
Individually Shielded and Jacketed Quads



### Individually Shielded and Jacketed Quads

Not NEC Rated

#### Product Description

**26 AWG\*** stranded (30x40) bare copper conductor. Polyethylene insulation. Quads individually shielded with bare copper "French Braid," each quad with 26 AWG tinned copper drain wire. Color-coded PVC inner jackets (see table below) with overall Matte Black PVC jacket and 20 AWG drain wire.

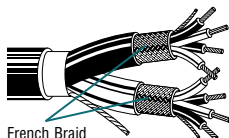
**Color Code:** Blue, White, Blue w/White stripe, White w/Blue stripe.

#### Specifications

|                                        |                      |
|----------------------------------------|----------------------|
| <b>Nominal OD — Conductor</b>          | .020" (.51mm)        |
| <b>Nominal OD — Insulation</b>         | .045" (1.14mm)       |
| <b>Inner Pair Jacket OD</b>            | .157" (3.99mm)       |
| <b>Nominal DCR</b>                     |                      |
| Conductor                              | 36.0Ω/M' (11.8Ω/km)  |
| Shield                                 | 6.8Ω/M' (2.23Ω/km)   |
| <b>Nominal Impedance</b>               | 40Ω                  |
| <b>Nominal Velocity of Propagation</b> | 66%                  |
| <b>Nominal Capacitance</b>             |                      |
| Between Conductors                     | 39 pF/Ft. (129 pF/m) |
| Between Conductors in Quad Config.     | 57 pF/Ft. (188 pF/m) |

DCR = DC Resistance

\*22 AWG equivalent DCR when connected to a 3-pin XLR



French Braid

| Part No. | No. of Quads | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

#### Super-Flexible Quads

| 26 AWG                          |    |      |       |       |       |       |       |
|---------------------------------|----|------|-------|-------|-------|-------|-------|
| <b>7884A</b> <small>new</small> | 2  | 250  | 76.2  | 27.0  | 12.3  | .458  | 11.63 |
|                                 |    | 500  | 152.4 | 54.5  | 24.8  |       |       |
|                                 |    | 1000 | 304.8 | 99.0  | 45.0  |       |       |
| <b>7885A</b> <small>new</small> | 4  | 250  | 76.2  | 35.0  | 15.9  | .498  | 12.65 |
|                                 |    | 500  | 152.4 | 70.5  | 32.0  |       |       |
|                                 |    | 1000 | 304.8 | 131.0 | 59.5  |       |       |
| <b>7886A</b> <small>new</small> | 8  | 250  | 76.2  | 76.0  | 34.6  | .782  | 19.86 |
|                                 |    | 500  | 152.4 | 146.5 | 66.6  |       |       |
|                                 |    | 1000 | 304.8 | 315.0 | 143.2 |       |       |
| <b>7887A</b> <small>new</small> | 12 | 250  | 76.2  | 90.0  | 41.0  | .828  | 21.03 |
|                                 |    | 500  | 152.4 | 178.0 | 80.9  |       |       |
|                                 |    | 1000 | 304.8 | 366.0 | 166.4 |       |       |
| <b>7888A</b> <small>new</small> | 16 | 250  | 76.2  | 115.0 | 52.3  | .938  | 23.83 |
|                                 |    | 500  | 152.4 | 239.5 | 108.9 |       |       |
|                                 |    | 1000 | 304.8 | 470.0 | 213.6 |       |       |
| <b>7889A</b> <small>new</small> | 24 | 250  | 76.2  | 194.0 | 88.3  | 1.232 | 31.29 |
|                                 |    | 500  | 152.4 | 396.0 | 180.0 |       |       |
|                                 |    | 1000 | 304.8 | 798.0 | 362.7 |       |       |

Length may vary -10% to +0% from length shown.

#### Inner Jacket Colors:

| Quad No. | Jacket Color | Quad No. | Jacket Color    |
|----------|--------------|----------|-----------------|
| 1        | Brown        | 8        | Gray            |
| 2        | Red          | 9        | White           |
| 3        | Orange       | 10       | Black           |
| 4        | Yellow       | 11       | Beige           |
| 5        | Green        | 12       | Pink            |
| 6        | Blue         | 13-24    | Gray (numbered) |
| 7        | Violet       |          |                 |



By:



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1-800-527-0010

# Analog Multi-Pair Snake Cable

CMR Rated Cables

Individually Shielded and Jacketed Twisted Pairs



## Individually Shielded and Jacketed Pairs

NEC: CMR (CEC: CMG FT4)

### Product Description

**24 AWG** stranded (7x32) tinned copper conductor. Polyolefin insulation. Twisted pairs individually shielded with 100% Beldfoil® and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Beldfoil shield plus overall Black PVC jacket and nylon rip cord.

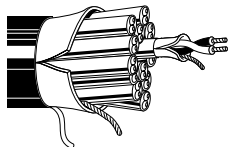
**Color Code:** Red, Black.

### Specifications

|                                        |                      |
|----------------------------------------|----------------------|
| <b>Nominal OD — Conductor</b>          | .024" (.61mm)        |
| <b>Nominal OD — Insulation</b>         | .040" (1.02mm)       |
| <b>Inner Pair Jacket OD</b>            | .111" (2.82mm)       |
| <b>Approvals</b>                       |                      |
| NEC                                    | CMR                  |
| CEC                                    | CMG FT4              |
| <b>Nominal DCR</b>                     |                      |
| Conductor                              | 23.3Ω/M' (76.4Ω/km)  |
| Shield                                 | 15.9Ω/M' (62.0Ω/km)  |
| <b>Nominal Impedance</b>               | 50Ω                  |
| <b>Nominal Velocity of Propagation</b> | 66%                  |
| <b>Nominal Capacitance</b>             |                      |
| Between Conductors                     | 31 pF/Ft. (102 pF/m) |
| Between Conductor/Shield*              | 56 pF/Ft. (184 pF/m) |

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

### CMR Rated Twisted Pairs NEC: CMR (CEC: CMG FT4)

| 24 AWG       |    |             |                |                |                |      |       |
|--------------|----|-------------|----------------|----------------|----------------|------|-------|
| <b>1408R</b> | 4  | 500<br>1000 | 152.4<br>304.8 | 37.5<br>73.0   | 15.0<br>33.2   | .346 | 8.79  |
| <b>1409R</b> | 6  | 500<br>1000 | 152.4<br>304.8 | 50.0<br>99.0   | 22.7<br>45.0   | .412 | 10.46 |
| <b>1410R</b> | 8  | 500<br>1000 | 152.4<br>304.8 | 61.0<br>121.0  | 27.7<br>55.0   | .446 | 11.33 |
| <b>1411R</b> | 12 | 500<br>1000 | 152.4<br>304.8 | 90.0<br>173.0  | 40.9<br>78.6   | .555 | 14.10 |
| <b>1412R</b> | 16 | 500<br>1000 | 152.4<br>304.8 | 115.0<br>229.0 | 52.3<br>104.1  | .622 | 15.80 |
| <b>1413R</b> | 20 | 500<br>1000 | 152.4<br>304.8 | 142.5<br>289.0 | 64.8<br>131.4  | .704 | 17.88 |
| <b>1414R</b> | 24 | 500<br>1000 | 152.4<br>304.8 | 179.5<br>369.0 | 81.6<br>167.7  | .801 | 20.35 |
| <b>1415R</b> | 26 | 500<br>1000 | 152.4<br>304.8 | 190.5<br>391.0 | 86.6<br>177.7  | .816 | 20.73 |
| <b>1416R</b> | 32 | 500<br>1000 | 152.4<br>304.8 | 225.0<br>458.0 | 102.3<br>208.2 | .890 | 22.61 |

Length may vary -10% to +0% from length shown.

# Analog Multi-Pair Snake Cable

Flexible, CM Rated Cables

Individually Shielded and Jacketed Twisted Pairs



## Individually Shielded and Jacketed Pairs

NEC: CM (CEC: CM)

### Product Description

**24 AWG** stranded (7x32) tinned copper conductor. Polyolefin insulation. Twisted pairs individually shielded with 100% Beldfoil® and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Beldfoil shield plus overall Matte Black PVC jacket and nylon rip cord.

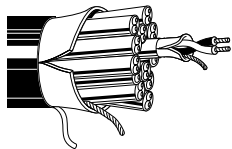
**Color Code:** Red, Black.

### Specifications

|                                        |                      |
|----------------------------------------|----------------------|
| <b>Nominal OD — Conductor</b>          | .024" (.61mm)        |
| <b>Nominal OD — Insulation</b>         | .040" (1.02mm)       |
| <b>Inner Pair Jacket OD</b>            | .111" (2.82mm)       |
| <b>Approvals</b>                       |                      |
| NEC                                    | CM                   |
| CEC                                    | CM                   |
| <b>Nominal DCR</b>                     |                      |
| Conductor                              | 23.3Ω/M' (76.4Ω/km)  |
| Shield                                 | 15.9Ω/M' (62.0Ω/km)  |
| <b>Nominal Impedance</b>               | 50Ω                  |
| <b>Nominal Velocity of Propagation</b> | 66%                  |
| <b>Nominal Capacitance</b>             |                      |
| Between Conductors                     | 31 pF/Ft. (102 pF/m) |
| Between Conductor/Shield*              | 56 pF/Ft. (184 pF/m) |

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

### Flexible, CM Rated Twisted Pairs NEC: CM (CEC: CM)

| 24 AWG                  |    |             |                |                |                |       |       |
|-------------------------|----|-------------|----------------|----------------|----------------|-------|-------|
| <b>1509C</b>            | 2  | 500<br>1000 | 152.4<br>304.8 | 23.5<br>44.0   | 10.7<br>20.0   | .301  | 7.65  |
| <b>1510C</b>            | 4  | 500<br>1000 | 152.4<br>304.8 | 37.0<br>71.0   | 16.8<br>32.3   | .352  | 8.94  |
| <b>1511C</b>            | 6  | 500<br>1000 | 152.4<br>304.8 | 49.0<br>97.0   | 22.3<br>44.1   | .418  | 10.61 |
| <b>1512C</b><br>(DT-12) | 8  | 500<br>1000 | 152.4<br>304.8 | 64.0<br>130.0  | 29.1<br>59.1   | .452  | 11.48 |
| <b>1513C</b>            | 12 | 500<br>1000 | 152.4<br>304.8 | 88.0<br>174.0  | 40.0           | .561  | 14.25 |
| <b>1514C</b>            | 16 | 500<br>1000 | 152.4<br>304.8 | 116.5<br>228.0 | 53.0<br>103.6  | .628  | 15.95 |
| <b>1515C</b>            | 20 | 500<br>1000 | 152.4<br>304.8 | 139.0<br>282.0 | 63.2<br>128.2  | .710  | 19.56 |
| <b>1516C</b>            | 24 | 500<br>1000 | 152.4<br>304.8 | 174.0<br>358.0 | 79.1<br>162.7  | .807  | 20.50 |
| <b>1517C</b>            | 26 | 500<br>1000 | 152.4<br>304.8 | 183.5<br>377.0 | 83.4<br>171.4  | .823  | 20.90 |
| <b>1518C</b>            | 32 | 500<br>1000 | 152.4<br>304.8 | 220.5<br>449.0 | 100.2<br>204.1 | .897  | 22.78 |
| <b>1519C</b>            | 52 | 500<br>1000 | 152.4<br>304.8 | 359.5<br>705.0 | 163.4<br>320.5 | 1.117 | 28.37 |

Length may vary -10% to +0% from length shown.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## Analog Multi-Pair Snake Cable

FleXsnake® Super-Flexible, High-Performance Cables  
Individually Shielded and Jacketed Twisted Pairs



### Individually Shielded and Jacketed Pairs

Not NEC Rated

### Product Description

**24 AWG** stranded (41x40) bare copper conductor. Polyolefin insulation. Twisted pairs individually shielded with double serve "French Braid" (93% coverage). Pairs have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Overall Black PVC jacket with tinned copper drain wire.

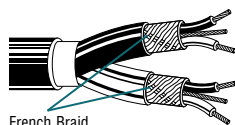
**Color Code:** Red, Black.

### Specifications

|                                        |                      |
|----------------------------------------|----------------------|
| <b>Nominal OD — Conductor</b>          | .023" (.58mm)        |
| <b>Nominal OD — Insulation</b>         | .040" (1.02mm)       |
| <b>Inner Pair Jacket OD</b>            | .120" (3.05mm)       |
| <b>Nominal DCR</b>                     |                      |
| Conductor                              | 25.5Ω/M' (83.7Ω/km)  |
| Shield                                 | 7.2Ω/M' (23.6Ω/km)   |
| <b>Nominal Impedance</b>               | 60Ω                  |
| <b>Nominal Velocity of Propagation</b> | 66%                  |
| <b>Nominal Capacitance</b>             |                      |
| Between Conductors                     | 26 pF/Ft. (85 pF/m)  |
| Between Conductor/Shield*              | 47 pF/Ft. (154 pF/m) |

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



French Braid

| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

### FleXsnake Super-Flexible Twisted Pairs

| 24 AWG       |    |      |       |       |       |      |       |
|--------------|----|------|-------|-------|-------|------|-------|
| <b>1902A</b> | 2  | 250  | 76.2  | 14.0  | 6.4   | .330 | 8.38  |
|              |    | 500  | 152.4 | 27.0  | 12.3  |      |       |
|              |    | 1000 | 304.8 | 53.0  | 24.1  |      |       |
| <b>1904A</b> | 4  | 250  | 76.2  | 23.3  | 10.6  | .372 | 8.45  |
|              |    | 500  | 152.4 | 40.5  | 18.4  |      |       |
|              |    | 1000 | 304.8 | 78.0  | 35.5  |      |       |
| <b>1906A</b> | 6  | 250  | 76.2  | 28.0  | 12.7  | .449 | 11.40 |
|              |    | 500  | 152.4 | 55.5  | 25.2  |      |       |
|              |    | 1000 | 304.8 | 111.0 | 50.5  |      |       |
| <b>1908A</b> | 8  | 250  | 76.2  | 34.3  | 15.6  | .482 | 12.20 |
|              |    | 500  | 152.4 | 70.0  | 31.8  |      |       |
|              |    | 1000 | 304.8 | 136.0 | 61.8  |      |       |
| <b>1912A</b> | 12 | 250  | 76.2  | 52.0  | 23.6  | .602 | 15.30 |
|              |    | 500  | 152.4 | 102.5 | 46.6  |      |       |
|              |    | 1000 | 304.8 | 203.0 | 92.3  |      |       |
| <b>1916A</b> | 16 | 250  | 76.2  | 71.3  | 32.4  | .683 | 17.30 |
|              |    | 500  | 152.4 | 138.0 | 62.7  |      |       |
|              |    | 1000 | 304.8 | 280.0 | 127.3 |      |       |
| <b>1924A</b> | 24 | 250  | 76.2  | 108.3 | 49.2  | .825 | 21.00 |
|              |    | 500  | 152.4 | 215.0 | 97.7  |      |       |
|              |    | 1000 | 304.8 | 438.0 | 199.1 |      |       |
| <b>1932A</b> | 32 | 250  | 76.2  | 135.5 | 61.6  | .968 | 24.60 |
|              |    | 500  | 152.4 | 274.5 | 124.8 |      |       |
|              |    | 1000 | 304.8 | 540.0 | 245.5 |      |       |

Length may vary -10% to +0% from length shown.



# Analog Multi-Pair Snake Cable

CMR Rated Cables

Individually Shielded and Jacketed Twisted Pairs



## Individually Shielded and Jacketed Pairs

NEC: CMR (CEC: CMG FT4)

### Product Description

**22 AWG** stranded (7x30) tinned copper conductor. Polyolefin insulation. Twisted pairs individually shielded with bonded Beldfoil® and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Beldfoil shield plus overall Black PVC jacket and nylon rip cord.

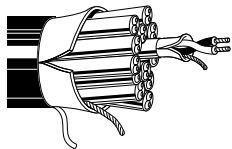
**Color Code:** Red, Black.

### Specifications

|                                        |                      |
|----------------------------------------|----------------------|
| <b>Nominal OD — Conductor</b>          | .030" (.76mm)        |
| <b>Nominal OD — Insulation</b>         | .050" (1.27mm)       |
| <b>Inner Pair Jacket OD</b>            | .133" (3.38mm)       |
| <b>Approvals</b>                       |                      |
| NEC                                    | CMR                  |
| CEC                                    | CMG FT4              |
| <b>Nominal DCR</b>                     |                      |
| Conductor                              | 16.0Ω/M' (52.5Ω/km)  |
| Shield                                 | 14.0Ω/M' (45.9Ω/km)  |
| <b>Nominal Impedance</b>               | 50Ω                  |
| <b>Nominal Velocity of Propagation</b> | 66%                  |
| <b>Nominal Capacitance</b>             |                      |
| Between Conductors                     | 31 pF/Ft. (102 pF/m) |
| Between Conductor/Shield*              | 56 pF/Ft. (184 pF/m) |

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

### CMR Rated Twisted Pairs NEC: CMR (CEC: CMG FT4)

| 22 AWG       |    |                    |                        |                       |                      |       |       |
|--------------|----|--------------------|------------------------|-----------------------|----------------------|-------|-------|
| <b>1814R</b> | 2  | 500<br>1000        | 152.4<br>304.8         | 29.0<br>56.0          | 13.2<br>25.5         | .330  | 8.38  |
| <b>1815R</b> | 4  | 500<br>1000        | 152.4<br>304.8         | 46.0<br>90.0          | 20.9<br>40.9         | .384  | 9.74  |
| <b>1816R</b> | 6  | 250<br>500<br>1000 | 76.2<br>152.4<br>304.8 | 31.8<br>62.0<br>124.0 | 14.4<br>28.2<br>56.4 | .462  | 11.73 |
| <b>1817R</b> | 8  | 500<br>1000        | 152.4<br>304.8         | 78.5<br>150.0         | 35.7<br>68.2         | .503  | 12.78 |
| <b>1818R</b> | 12 | 500<br>1000        | 152.4<br>304.8         | 117.5<br>233.0        | 53.4<br>105.9        | .638  | 16.21 |
| <b>1819R</b> | 16 | 500<br>1000        | 152.4<br>304.8         | 172.5<br>349.0        | 78.4<br>158.6        | .776  | 19.71 |
| <b>1820R</b> | 20 | 500<br>1000        | 152.4<br>304.8         | 214.5<br>439.0        | 97.5<br>199.5        | .865  | 21.97 |
| <b>1821R</b> | 24 | 500<br>1000        | 152.4<br>304.8         | 261.0<br>513.0        | 118.6<br>233.2       | .969  | 24.61 |
| <b>1822R</b> | 26 | 500<br>1000        | 152.4<br>304.8         | 278.0<br>547.0        | 126.4<br>248.6       | .989  | 25.12 |
| <b>1823R</b> | 32 | 500<br>1000        | 152.4<br>304.8         | 332.0<br>685.0        | 150.9<br>311.4       | 1.072 | 27.23 |

Length may vary -10% to +0% from length shown.



Interstate Wire Co. INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## Analog Multi-Pair Snake Cable

Flexible, Low-Capacitance Cables

Individually Shielded and Jacketed Twisted Pairs



### Individually Shielded and Jacketed Pairs

Not NEC Rated

#### Product Description

**22 AWG** stranded (7x30) tinned copper conductor. Datalene® insulation. Twisted pairs individually shielded with 100% Beldfoil® and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Matte Black PVC jacket and nylon rip cord.

Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

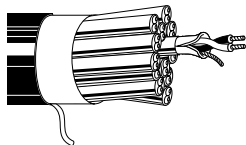
**Color Code:** Red, Black.

#### Specifications

|                                        |                      |
|----------------------------------------|----------------------|
| <b>Nominal OD — Conductor</b>          | .030" (.76mm)        |
| <b>Nominal OD — Insulation</b>         | .060" (1.52mm)       |
| <b>Inner Pair Jacket OD</b>            | .153" (3.89mm)       |
| <b>Nominal DCR</b>                     |                      |
| Conductor                              | 16.0Ω/M' (52.5Ω/km)  |
| Shield                                 | 10.6Ω/M' (34.8Ω/km)  |
| <b>Voltage Rating</b>                  | 150V                 |
| <b>Temperature Rating</b>              | 60°C                 |
| <b>Nominal Impedance</b>               | 70Ω                  |
| <b>Nominal Velocity of Propagation</b> | 78%                  |
| <b>Nominal Capacitance</b>             |                      |
| Between Conductors                     | 19 pF/Ft. (62 pF/m)  |
| Between Conductor/Shield*              | 35 pF/Ft. (115 pF/m) |

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

#### Flexible, Low-Capacitance Twisted Pairs

| 22 AWG        |    |             |                |                |                |       |       |
|---------------|----|-------------|----------------|----------------|----------------|-------|-------|
| <b>1217B</b>  | 4  | 500<br>1000 | 152.4<br>304.8 | 52.0<br>104.0  | 23.6<br>47.3   | .458  | 11.63 |
| <b>1218B</b>  | 6  | 500<br>1000 | 152.4<br>304.8 | 80.0<br>153.0  | 36.4<br>69.5   | .578  | 14.68 |
| <b>1219B</b>  | 9  | 500<br>1000 | 152.4<br>304.8 | 116.0<br>235.0 | 52.7<br>106.8  | .700  | 17.78 |
| <b>1220B</b>  | 12 | 500<br>1000 | 152.4<br>304.8 | 141.5<br>287.0 | 64.3<br>130.5  | .760  | 19.30 |
| <b>1222B</b>  | 16 | 500<br>1000 | 152.4<br>304.8 | 188.5<br>385.0 | 85.7<br>175.0  | .852  | 21.64 |
| <b>1225B</b>  | 20 | 500<br>1000 | 152.4<br>304.8 | 241.5<br>474.0 | 109.8<br>215.5 | .960  | 24.38 |
| <b>1427B</b>  | 24 | 1000        | 304.8          | 579.0          | 263.2          | 1.088 | 27.64 |
| <b>1221B</b>  | 28 | 500<br>1000 | 152.4<br>304.8 | 335.5<br>677.0 | 152.5<br>307.7 | 1.140 | 28.96 |
| <b>1226B</b>  | 32 | 500<br>1000 | 152.4<br>304.8 | 369.0<br>744.0 | 167.7<br>338.2 | 1.183 | 30.05 |
| <b>1428B†</b> | 52 | 1000        | 304.8          | 1142.0         | 519.1          | 1.496 | 38.00 |

Length may vary -10% to +0% from length shown.

†1428B available by special order. Please contact Belden for lead time.

# Analog Multi-Pair Snake Cable

CM Rated Cables

Individually Shielded Twisted Pairs



## Individually Shielded and Jacketed Pairs

NEC: CM (CEC: CM)

### Product Description

**22 AWG** stranded (7x30) tinned copper conductor. Polypropylene insulation. Twisted pairs individually shielded with 100% Beldfoil®. Overall Chrome PVC jacket and 22 AWG stranded tinned copper drain wire.

**Color Code:** See Chart 3 (in Technical Information Section)

### Specifications

**Nominal OD — Conductor** .030" (.76mm)

**Nominal OD — Insulation** .050" (1.27mm)

#### Approvals

NEC CM  
CEC CM

**UL Ratings** UL AWM Style 2919

**Voltage Rating** 30V

**Temperature Rating** 80°C

#### Nominal DCR

Conductor 16.0Ω/M' (52.5Ω/km)  
Shield 10.6Ω/M' (34.8Ω/km)

**Nominal Impedance** 50Ω

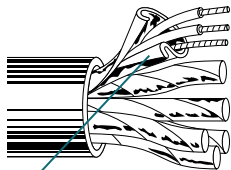
**Nominal Velocity of Propagation** 66%

#### Nominal Capacitance

Between Conductors 30 pF/Ft. (98 pF/m)  
Between Conductor/Shield\* 55 pF/Ft. (180 pF/m)

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



Z-Fold®

| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

### CM Rated Twisted Pairs NEC: CM (CEC: CM)

| 22 AWG |   |        |         |       |       |      |      |
|--------|---|--------|---------|-------|-------|------|------|
| 8777   | 3 | 100    | 30.5    | 5.3   | 2.4   | .273 | 6.93 |
|        |   | 250    | 76.2    | 11.3  | 5.1   |      |      |
|        |   | U-500  | U-152.4 | 21.0  | 9.5   |      |      |
|        |   | 500    | 152.4   | 21.0  | 9.5   |      |      |
|        |   | U-1000 | U-304.8 | 41.0  | 18.6  |      |      |
|        |   | 1000   | 304.8   | 42.0  | 19.1  |      |      |
|        |   | 1640   | 499.9   | 67.2  | 30.6  |      |      |
|        |   | 3280   | 999.7   | 137.8 | 62.6  |      |      |
|        |   | 5000   | 1524.0  | 210.0 | 95.5  |      |      |
|        |   | 10000  | 3048.0  | 450.0 | 204.5 |      |      |

For Plenum versions of 8777, see 88777, 87777 or 82777.

|      |   |      |       |      |      |      |      |
|------|---|------|-------|------|------|------|------|
| 8778 | 6 | 100  | 30.5  | 8.4  | 3.8  | .362 | 9.19 |
|      |   | 250  | 76.2  | 20.8 | 9.4  |      |      |
|      |   | 500  | 152.4 | 43.0 | 19.5 |      |      |
|      |   | 1000 | 304.8 | 83.0 | 37.7 |      |      |

For Plenum versions of 8778, see 88778, 87778 or 82778.

|      |    |       |       |       |       |      |       |
|------|----|-------|-------|-------|-------|------|-------|
| 8774 | 9  | 100   | 30.5  | 11.6  | 5.3   | .417 | 10.59 |
|      |    | 250   | 76.2  | 28.8  | 13.1  |      |       |
|      |    | 500   | 152.4 | 58.0  | 26.4  |      |       |
|      |    | 1000  | 304.8 | 115.0 | 52.3  |      |       |
| 8775 | 11 | 100   | 30.5  | 14.1  | 6.4   | .464 | 11.79 |
|      |    | 500   | 152.4 | 67.0  | 30.5  |      |       |
|      |    | 1000  | 304.8 | 133.0 | 60.5  |      |       |
| 9768 | 12 | 100   | 30.5  | 14.9  | 6.8   | .464 | 11.79 |
|      |    | 250   | 76.2  | 35.5  | 16.1  |      |       |
|      |    | 500   | 152.4 | 73.5  | 33.4  |      |       |
|      |    | 1000  | 304.8 | 143.0 | 65.0  |      |       |
| 8776 | 15 | 100   | 30.5  | 19.7  | 9.0   | .548 | 13.92 |
|      |    | 250   | 76.2  | 49.5  | 22.5  |      |       |
|      |    | 500   | 152.4 | 98.0  | 44.5  |      |       |
|      |    | 1000  | 304.8 | 197.0 | 89.5  |      |       |
| 9769 | 17 | 100   | 30.5  | 22.0  | 10.0  | .577 | 14.66 |
|      |    | 500   | 152.4 | 109.0 | 49.5  |      |       |
|      |    | 1000  | 304.8 | 215.0 | 97.7  |      |       |
| 8769 | 19 | 100   | 30.5  | 25.0  | 11.4  | .603 | 15.32 |
|      |    | 500   | 152.4 | 123.5 | 56.1  |      |       |
|      |    | 1000  | 304.8 | 245.0 | 111.4 |      |       |
| 8773 | 27 | 100   | 30.5  | 33.8  | 15.4  | .709 | 18.00 |
|      |    | 250†  | 76.2  | 85.0  | 38.6  |      |       |
|      |    | 500†  | 152.4 | 166.0 | 75.5  |      |       |
|      |    | 1000† | 304.8 | 346.0 | 157.3 |      |       |
| 9767 | 37 | 500†  | 152.4 | 224.0 | 101.8 | .800 | 20.32 |
|      |    | 1000† | 304.8 | 481.0 | 218.6 |      |       |

†Spools are one piece, but length may vary -0 to +20% from length shown.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

# Analog Multi-Pair Snake Cable

CMP Rated (Plenum) Cables

Individually Shielded Twisted Pairs



## Individually Shielded and Jacketed Pairs

NEC: CMP (CEC: CMP FT6)

### Product Description

**22 AWG** stranded (7x30) tinned copper conductor. FEP insulation (except 82777, 82778 which have Halar® insulation). Twisted pairs individually shielded with 100% Beldfoil®. Overall jacket per table below. 22 AWG stranded tinned copper drain wire.

**Color Code:** See Chart 3 (in Technical Information Section)

### Specifications

**Nominal OD — Conductor** .030" (.76mm)

**Nominal OD — Insulation** .050" (1.27mm)

#### Approvals

NEC CMP  
CEC CMP FT6

**UL Ratings** Non-conduit

**Voltage Rating** 300V RMS

#### Nominal DCR

Conductor 16.0Ω/M' (52.5Ω/km)  
Shield 11.3Ω/M' (37.1Ω/km)

#### Nominal Impedance

82xxx Series 46Ω  
87xxx, 88xxx Series 50Ω

#### Nominal Velocity of Propagation

82xxx Series 62%  
87xxx, 88xxx Series 69%

#### Nominal Capacitance (82xxx Series)

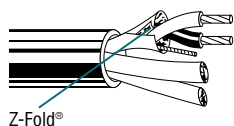
Between Conductors 35 pF/Ft. (115 pF/m)  
Between Conductor/Shield\* 76 pF/Ft. (249 pF/m)

#### Nominal Capacitance (87xxx, 88xxx Series)

Between Conductors 31 pF/Ft. (102 pF/m)  
Between Conductor/Shield\* 67 pF/Ft. (220 pF/m)

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



Z-Fold®

| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

### Plenum-Rated Twisted Pairs NEC: CMP (CEC: CMP FT6)

| 22 AWG |   |        |         |      |      |      |      |
|--------|---|--------|---------|------|------|------|------|
| 88777  | 3 | 100    | 30.5    | 6.0  | 2.7  | .234 | 5.94 |
|        |   | 500†   | 152.4   | 21.0 | 9.5  |      |      |
|        |   | 1000†  | 304.8   | 42.0 | 19.1 |      |      |
| 88778  | 6 | 100    | 30.5    | 8.8  | 4.0  | .309 | 7.85 |
|        |   | 500†   | 152.4   | 40.0 | 18.2 |      |      |
|        |   | 1000†  | 304.8   | 75.0 | 34.1 |      |      |
| 87777  | 3 | 500†   | 152.4   | 20.0 | 9.1  | .234 | 5.94 |
|        |   | 1000†  | 304.8   | 40.0 | 18.2 |      |      |
| 87778  | 6 | 500†   | 152.4   | 37.5 | 17.0 | .309 | 7.85 |
|        |   | 1000†  | 304.8   | 73.0 | 33.2 |      |      |
| 82777  | 3 | U-500† | U-152.4 | 19.0 | 8.6  | .234 | 5.94 |
|        |   | U-1000 | U-304.8 | 38.0 | 17.3 |      |      |
|        |   | 1000†  | 304.8   | 39.0 | 17.7 |      |      |
| 82778  | 6 | 1000†  | 304.8   | 67.0 | 30.5 | .330 | 8.38 |

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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## Analog Multi-Pair Snake Cable

CMP Rated (Plenum) Cables

Individually Shielded Twisted Pairs



### Individually Shielded and Jacketed Pairs

NEC: CMP (CEC: CMP FT6)

#### Product Description

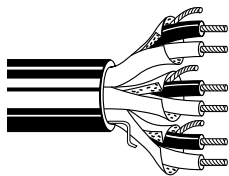
**22 AWG** stranded (7x30) bare copper conductor. FEP insulation. Twisted pairs individually shielded with 100% Beldfoil® with drain wire. Multiple pairs cable together. Overall Gray fluorocopolymer jacket and rip cord. Sequential footage marking every two feet.

**Color Code:** See Chart 3 (in Technical Information Section)

#### Specifications

|                                        |                         |
|----------------------------------------|-------------------------|
| <b>Nominal OD — Conductor</b>          | .029" (.74mm)           |
| <b>Nominal OD — Insulation</b>         | .049" (1.24mm)          |
| <b>Insulation Thickness</b>            | .010" (.254mm)          |
| <b>Shield</b>                          | Beldfoil                |
| <b>Outer Jacket Thickness</b>          |                         |
| 2- to 12-pair                          | .015" (.38mm)           |
| 16-pair (6549PA)                       | .018" (.46mm)           |
| <b>Approvals</b>                       |                         |
| NEC                                    | CMP                     |
| CEC                                    | CMP FT6                 |
| <b>NEC Articles</b>                    | 800                     |
| <b>Voltage Rating</b>                  | 300V                    |
| <b>Temperature Rating</b>              | 75°C                    |
| <b>Nominal DCR</b>                     |                         |
| Conductor                              | 16.4Ω/M' (53.8Ω/km)     |
| Shield                                 | 15.3Ω/M' (50.2Ω/km)     |
| <b>Nominal Impedance</b>               | 50Ω                     |
| <b>Nominal Velocity of Propagation</b> | 69%                     |
| <b>Nominal Capacitance</b>             | 27.5 pF/Ft. (90.2 pF/m) |

DCR = DC Resistance



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

#### Plenum-Rated Twisted Pairs NEC: CMP (CEC: CMP FT6)

| 22 AWG        |    |        |       |       |      |      |      |
|---------------|----|--------|-------|-------|------|------|------|
| <b>6541PA</b> | 2  | 500    | 152   | 13.5  | 6.1  | .214 | 5.44 |
|               |    | U-1000 | U-305 | 26.0  | 11.8 |      |      |
|               |    | 1000   | 305   | 26.0  | 11.8 |      |      |
| <b>6542PA</b> | 3  | 1000   | 305   | 36.0  | 16.4 | .228 | 5.79 |
| <b>6543PA</b> | 4  | 1000   | 305   | 46.0  | 20.9 | .252 | 6.40 |
| <b>6545PA</b> | 6  | 1000   | 305   | 62.0  | 28.2 | .300 | 7.62 |
| <b>6546PA</b> | 8  | 1000   | 305   | 82.0  | 37.3 | .328 | 8.53 |
| <b>6548PA</b> | 12 | 1000   | 305   | 121.5 | 55.2 | .404 | 9.14 |
| <b>6549PA</b> | 16 | 1000   | 305   | 161.0 | 73.2 | .459 | 9.53 |



By:



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**1-800-527-0010**

# AES/EBU Digital Audio Cable

## Overview



While digital audio has been around for over 25 years, only recently has there been an effort to standardize specifications. The Audio Engineering Society (U.S.) and the European Broadcast Union have established an international standard, called AES/EBU. The detailed specifications of this standard are:

**Sampling Rate:** from 32 KHz to 192 KHz  
**Bandwidth:** from 4.096 MHz to 24.5 MHz  
**Impedance:** 110Ω ± 20%

The key difference between twisted pair specifications for digital audio cable and standard analog audio cable is the impedance specification.

AES/EBU, with its broad tolerance, allows cables with impedances from 88 ohms to 132 ohms to be used. Standard analog audio cable impedance is 45 ohms to 70 ohms. This potential amount of mismatch can result in signal reflections and jitter, causing bit errors at the receiver. For this reason Belden recommends 100 to 120 ohm shielded twisted pair cable.

## Product Characteristics

Belden's product offering includes 110 ohm cable solutions and an entire line of single and multi-pair snake cable designed specifically for digital audio. These cables utilize Datalene® premium grade high density insulation. This provides exceptional crush resistance as compared to standard foam polyethylenes, making the new cables less susceptible to damage resulting from cable pulling or flexing. The high velocity of propagation further reduces capacitance and signal delay providing error-free transmissions over extended distances.

Belden's "Super Flexible" digital patch cable, part no. 1800F, utilizes Belden's patented "French Braid" shield technology and a special jacket compound formulation to provide the ultimate in flexibility and performance.

## Digital Audio Attenuation

| Part No.            | 2 MHz      |         | 4 MHz      |         | 5 MHz      |         | 6 MHz      |         | 12 MHz     |         | 25 MHz     |         |
|---------------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
|                     | dB/100 Ft. | dB/100m | dB/100 Ft. | dB/100m | dB/100 Ft. | dB/100m | dB/100 Ft. | dB/100m | dB/100 Ft. | dB/100m | dB/100 Ft. | dB/100m |
| <b>7880A Series</b> | 1.67       | 5.48    | 2.11       | 6.92    | 2.30       | 7.55    | 2.46       | 8.07    | 3.16       | 10.37   | 4.22       | 13.85   |
| <b>1800F</b>        | 1.28       | 4.20    | 2.17       | 7.12    | 2.62       | 8.60    | 3.01       | 9.88    | 4.72       | 15.49   | 7.17       | 23.52   |
| <b>1803F Series</b> | 1.30       | 4.27    | 1.56       | 5.12    | 1.70       | 5.58    | 1.81       | 5.94    | 2.28       | 7.48    | 3.08       | 10.10   |
| <b>1696A</b>        | .93        | 3.05    | 1.15       | 3.77    | 1.20       | 3.94    | 1.30       | 4.27    | 1.60       | 5.25    | 1.97       | 6.46    |
| <b>1855A</b>        | .57        | 1.86    | .82        | 2.70    | .92        | 3.02    | 1.00       | 3.29    | 1.30       | 4.27    | 1.80       | 5.91    |
| <b>1505A</b>        | .41        | 1.35    | .58        | 1.89    | .63        | 2.07    | .69        | 2.25    | .90        | 2.95    | 1.30       | 4.27    |
| <b>1505F</b>        | .34        | 1.11    | .53        | 1.74    | .60        | 1.97    | .67        | 2.20    | .98        | 3.22    | 1.44       | 4.72    |
| <b>1694A</b>        | .16        | .52     | .48        | 1.57    | .54        | 1.77    | .59        | 1.93    | .80        | 2.62    | 1.00       | 3.28    |

Values reflect typical results.

## Maximum Recommended Transmission Distance at Digital Audio Data Rates

| Part No.            | 2 MHz |      | 4 MHz |      | 5 MHz |      | 6 MHz |      | 12 MHz |     | 25 MHz |     |
|---------------------|-------|------|-------|------|-------|------|-------|------|--------|-----|--------|-----|
|                     | Ft.   | m    | Ft.   | m    | Ft.   | m    | Ft.   | m    | Ft.    | m   | Ft.    | m   |
| <b>7880A Series</b> | 1198  | 365  | 948   | 289  | 870   | 265  | 813   | 248  | 633    | 193 | 474    | 144 |
| <b>1800F</b>        | 1563  | 476  | 922   | 281  | 763   | 233  | 664   | 203  | 424    | 129 | 279    | 85  |
| <b>1803F Series</b> | 1538  | 469  | 1282  | 391  | 1176  | 359  | 1105  | 337  | 877    | 267 | 649    | 198 |
| <b>1696A</b>        | 2151  | 655  | 1739  | 530  | 1667  | 508  | 1538  | 469  | 1250   | 381 | 1015   | 309 |
| <b>1855A</b>        | 3521  | 1073 | 2427  | 740  | 2174  | 663  | 1992  | 607  | 1538   | 469 | 1111   | 339 |
| <b>1505A</b>        | 4866  | 1483 | 3478  | 1060 | 3175  | 968  | 2911  | 887  | 2222   | 677 | 1538   | 469 |
| <b>1505F</b>        | 5882  | 1793 | 3774  | 1150 | 3333  | 1016 | 2985  | 910  | 2041   | 622 | 1389   | 423 |
| <b>1694A</b>        | 5882  | 1793 | 4184  | 1275 | 3704  | 1129 | 3407  | 1039 | 2500   | 762 | 2000   | 610 |

Transmission distance calculations assume minimum allowable output signal amplitude (2V per AES3-1992) and minimum allowable input signal amplitude (2mV per AES3-1992) and a 80% safety factor. Much longer transmission distance is achievable but is contingent upon system component quality.

# AES/EBU Digital Audio Cable

## Single- and Double-Pair Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No. of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |            |               |             |
|-------------|----------|------------------------------|-----------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|------------|---------------|-------------|
|             |          |                              |                 |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | * pF/<br>Ft.     | * pF/<br>m | ** pF/<br>Ft. | ** pF/<br>m |

**26 AWG** Stranded (7x34) .018" Tinned Copper • Twisted Pair • Beldfoil® Shield • 26 AWG Stranded TC Drain Wire

### Datalene® Insulation • Chrome or Violet PVC Jacket

2-Conductor Digital  
Video Time Code Cable  
80°C

**9180**

NEC:  
CMR  
CEC:  
CMG FT4

1

Black,  
White

1000

304.8

11.0

5.0

37.3 $\Omega$ /M'

122.3 $\Omega$ /km

23.1 $\Omega$ /M'

75.8 $\Omega$ /km

.144

3.66

110

76%

13

43

26

85



Shorting Fold

For cross-connect use with 7891A (et al.)  
Digital Audio Snake Cables, see page 12.29.

**24 AWG** Stranded (7x32) Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Drain Wire

### Datalene Insulation • Slate Gray or Violet PVC Jacket

60°C

**1800B**

NEC:  
CMG  
CEC:  
CMG FT4

1

Black,  
Red

500\*

152.4

12.0

5.5

23.7 $\Omega$ /M'

77.7 $\Omega$ /km

18.9 $\Omega$ /M'

62.0 $\Omega$ /km

.177

4.57

110

76%

13

43

26

85



For cross-connect use with 1803F (et al.)  
Digital Audio Snake Cables, see page 12.29.

\*500 ft. put-up available in Gray only. 5000 ft. put-up available in Violet only.  
The jacket and shield are bonded so both can be removed with automatic stripping equipment.

**24 AWG** Stranded (42x40) HC Bare Copper • Conductors Cabled with Fillers • TC "French Braid" Shield (95% Coverage) • BC Drain Wire

### Datalene Insulation • Matte PVC Jacket (Red, Yellow, Green, Blue, Gray or Black)

Digital Mic Cable  
High-Flex  
60°C

**1800F**

NEC:  
CL2R

1

Black,  
Red

500\*

152.4

13.5

6.1

23.7 $\Omega$ /M'

77.7 $\Omega$ /km

5.0 $\Omega$ /M'

16.4 $\Omega$ /km

.211

5.36

110

76%

13

43

26

85



French Braid

\*500 ft. and 1000 ft. put-ups available in Black only.

**24 AWG** Stranded (7x32) Tinned Copper • Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Drain Wire

### Plenum • Foam FEP Teflon® Insulation • Natural White or Violet Flamarrest® Jacket

75°C, Non-conduit

**1801B**

NEC:  
CMP  
CEC:  
CMP FT6

1

Black,  
Red

500†

152.4

9.0

4.1

23.7 $\Omega$ /M'

77.7 $\Omega$ /km

18.9 $\Omega$ /M'

62.0 $\Omega$ /km

.165

4.19

110

76%

13

43

26

85



**24 AWG** Stranded (7x32) Tinned Copper • Dual Twisted Pairs • Overall 100% Beldfoil Shield • 24 AWG Drain Wire

### Datalene Insulation • Violet PVC Jacket in Zip-Cord Construction

60°C

**1802B**

NEC:  
CMG  
CEC:  
CMG FT4

2

Black,  
Red

500

152.4

18.5

8.4

23.7 $\Omega$ /M'

77.7 $\Omega$ /km

18.9 $\Omega$ /M'

62.0 $\Omega$ /km

.180

4.57

110

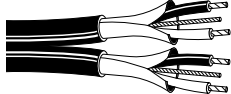
76%

13

43

26

85



The jacket and shield are bonded so both can be removed with automatic stripping equipment.

**22 AWG** Stranded (7x30) Tinned Copper • Twisted Pair with Fillers • Overall 100% Beldfoil Shield + 90% TC Braid Shield • 24 AWG Drain Wire

### Datalene Insulation • Black High-Flex Matte PVC Jacket

High-Flex  
60°C

**1696A**

1

Blue,  
White

250

76.2

8.0

3.6

14.8 $\Omega$ /M'

48.5 $\Omega$ /km

4.6 $\Omega$ /M'

15.2 $\Omega$ /km

.234

5.94

110

76%

13

43

26

85



Z-Fold®

BC = Bare Copper • DCR = DC Resistance • HC = High-conductivity • TC = Tinned Copper

\*Capacitance between conductors. \*\*Capacitance between one conductor and other conductors connected to shield.

†Spools and/or UnReel® cartons are one piece, but length may vary  $\pm 10\%$  for spools and  $\pm 5\%$  for UnReel from length shown.

Teflon is a DuPont trademark.



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**1-800-527-0010**



# AES/EBU Digital Audio Cable

## Multi-Pair Snake Cables

### Individually Shielded and Jacketed Pairs



#### Individually Shielded and Jacketed Pairs

NEC: CMG (CEC: CMG FT4)

#### Product Description

**26 AWG or 24 AWG** stranded tinned copper conductor. Datalene® insulation. Pairs individually shielded with bonded Beldfoil® and have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Overall Beldfoil shield plus overall Purple PVC jacket and nylon rip cord.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

**Color Code:** Black, Red.

#### Specifications

##### Nominal OD — Conductor

|        |               |
|--------|---------------|
| 26 AWG | .019" (.48mm) |
| 24 AWG | .024" (.60mm) |

##### Nominal OD — Insulation

|        |                |
|--------|----------------|
| 26 AWG | .054" (1.37mm) |
| 24 AWG | .070" (1.78mm) |

##### Inner Pair Jacket OD

|        |                |
|--------|----------------|
| 26 AWG | .136" (3.45mm) |
| 24 AWG | .167" (4.24mm) |

##### Approvals\*

|     |         |
|-----|---------|
| NEC | CMG     |
| CEC | CMG FT4 |

##### Nominal DCR (26 AWG)

|           |                      |
|-----------|----------------------|
| Conductor | 37.3Ω/M' (122.3Ω/km) |
| Shield    | 25.5Ω/M' (83.6Ω/km)  |

##### Nominal DCR (24 AWG)

|           |                     |
|-----------|---------------------|
| Conductor | 23.7Ω/M' (77.7Ω/km) |
| Shield    | 18.9Ω/M' (62.0Ω/km) |

##### Nominal Impedance

110Ω ±10Ω

##### Nominal Velocity of Propagation

76%

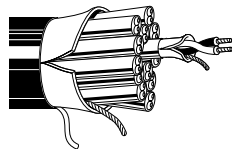
##### Nominal Capacitance

|                            |                     |
|----------------------------|---------------------|
| Between Conductors         | 13 pF/Ft. (43 pF/m) |
| Between Conductor/Shield** | 25 pF/Ft. (82 pF/m) |

DCR = DC Resistance

\*7880A is NEC: CM/CEC: CM rated.

\*\*Capacitance between one conductor and other conductors connected to shield.



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

#### Individually Shielded & Jacketed NEC: CMG (CEC: CMG FT4)

##### 26 AWG (7x34)

|                                  |   |      |       |       |      |      |       |
|----------------------------------|---|------|-------|-------|------|------|-------|
| <b>7891A</b> <small>new</small>  | 2 | 500  | 152.4 | 28.0  | 12.7 | .343 | 8.71  |
|                                  |   | 1000 | 304.8 | 56.0  | 25.5 |      |       |
| <b>7890A</b> <small>new</small>  | 4 | 100  | 30.5  | 8.2   | 3.7  | .399 | 10.13 |
|                                  |   | 250  | 76.2  | 18.0  | 8.2  |      |       |
|                                  |   | 500  | 152.4 | 31.0  | 14.1 |      |       |
|                                  |   | 1000 | 304.8 | 61.0  | 27.7 |      |       |
| <b>7880A†</b> <small>new</small> | 8 | 250  | 76.2  | 29.8  | 13.5 | .541 | 13.74 |
|                                  |   | 500  | 152.4 | 57.0  | 25.9 |      |       |
|                                  |   | 1000 | 304.8 | 141.0 | 64.1 |      |       |

Fits D-Sub connectors.

|                                 |    |      |       |       |       |      |       |
|---------------------------------|----|------|-------|-------|-------|------|-------|
| <b>7892A</b> <small>new</small> | 12 | 500  | 152.4 | 85.0  | 38.6  | .679 | 17.25 |
|                                 |    | 1000 | 304.8 | 174.0 | 79.1  |      |       |
| <b>7893A</b> <small>new</small> | 16 | 500  | 152.4 | 109.5 | 49.8  | .770 | 19.56 |
|                                 |    | 1000 | 304.8 | 240.0 | 109.1 |      |       |

##### 24 AWG (7x32) • Flexible

|                                 |    |      |       |       |       |       |       |
|---------------------------------|----|------|-------|-------|-------|-------|-------|
| <b>1803F</b>                    | 4  | 250  | 76.2  | 30.0  | 13.6  | .485  | 12.32 |
|                                 |    | 500  | 152.4 | 57.5  | 26.1  |       |       |
|                                 |    | 1000 | 304.8 | 107.0 | 48.6  |       |       |
| <b>1805F</b>                    | 8  | 250  | 76.2  | 52.3  | 23.8  | .661  | 16.79 |
|                                 |    | 500  | 152.4 | 103.5 | 47.0  |       |       |
|                                 |    | 1000 | 304.8 | 205.0 | 93.2  |       |       |
| <b>1806F</b>                    | 12 | 250  | 76.2  | 78.8  | 35.8  | .829  | 21.06 |
|                                 |    | 500  | 152.4 | 156.0 | 70.9  |       |       |
|                                 |    | 1000 | 304.8 | 322.0 | 146.4 |       |       |
| <b>1850F</b> <small>new</small> | 16 | 250  | 76.2  | 99.5  | 45.2  | .944  | 23.98 |
|                                 |    | 500  | 152.4 | 209.5 | 95.2  |       |       |
|                                 |    | 1000 | 304.8 | 410.0 | 186.4 |       |       |
| <b>1852F</b> <small>new</small> | 24 | 250  | 76.2  | 156.0 | 70.9  | 1.205 | 30.61 |
|                                 |    | 500  | 152.4 | 322.0 | 146.4 |       |       |
|                                 |    | 1000 | 304.8 | 646.0 | 293.6 |       |       |
| <b>1854F</b> <small>new</small> | 32 | 250  | 76.2  | 224.0 | 101.8 | 1.346 | 34.19 |
|                                 |    | 500  | 152.4 | 434.0 | 197.3 |       |       |
|                                 |    | 1000 | 304.8 | 846.0 | 384.5 |       |       |

Length may vary -10% to +0% from length shown.

†7880A is designed to fit in 25-pin D-sub connectors used in digital console board equipment.



# AES/EBU Digital Audio Cable

Multi-Pair Snake Cables  
Individually Shielded Pairs



## Individually Shielded Pairs

NEC: CM (CEC: CM)

## Product Description

**24 AWG** stranded (7x32) tinned copper conductor. Datalene® insulation. Twisted pairs individually shielded with 100% Beldfoil®. Overall Chrome PVC jacket and 24 AWG stranded tinned copper drain wire.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

**Color Code:** See Chart 3 (in Technical Information Section)

## Specifications

**Nominal OD — Conductor** .024" (.60mm)

**Nominal OD — Insulation** .061" (1.55mm)

### Approvals

NEC CM  
CEC CM

**UL Ratings** UL AWM Style 2493

**Voltage Rating** 300V

**Temperature Rating** 60°C

### Nominal DCR

Conductor 24.0Ω/M' (78.7Ω/km)  
Shield 18.0Ω/M' (59.1Ω/km)

**Nominal Impedance** 100Ω

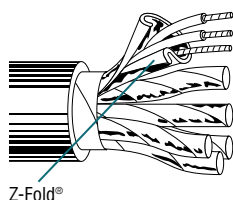
**Nominal Velocity of Propagation** 76%

### Nominal Capacitance

Between Conductors 12.5 pF/Ft. (41.0 pF/m)  
Between Conductor/Shield\* 23.2 pF/Ft. (76.1 pF/m)

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

## Individually Shielded Pairs NEC: CM (CEC: CM)

| 24 AWG |   |       |        |       |       |      |      |
|--------|---|-------|--------|-------|-------|------|------|
| 9729   | 2 | 100   | 30.5   | 4.4   | 2.0   | .317 | 8.05 |
|        |   | 500   | 152.4  | 21.0  | 9.5   |      |      |
|        |   | 1000  | 304.8  | 39.0  | 17.7  |      |      |
|        |   | 10000 | 3048.0 | 400.0 | 181.8 |      |      |

For Plenum version of 9729, see 89729 or 82729.

|      |   |       |        |       |       |      |      |
|------|---|-------|--------|-------|-------|------|------|
| 9730 | 3 | 100   | 30.5   | 5.1   | 2.3   | .334 | 8.48 |
|      |   | 500   | 152.4  | 24.5  | 11.1  |      |      |
|      |   | 1000  | 304.8  | 46.0  | 20.9  |      |      |
|      |   | 10000 | 3048.0 | 520.0 | 236.4 |      |      |

For Plenum version of 9730, see 89730.

|      |   |      |       |      |      |      |      |
|------|---|------|-------|------|------|------|------|
| 9728 | 4 | 100  | 30.5  | 6.0  | 2.7  | .363 | 9.22 |
|      |   | 500  | 152.4 | 28.5 | 13.0 |      |      |
|      |   | 1000 | 304.8 | 55.0 | 25.0 |      |      |

For Plenum version of 9728, see 89728.

|      |   |      |       |      |      |      |       |
|------|---|------|-------|------|------|------|-------|
| 9731 | 6 | 100  | 30.5  | 11.1 | 5.0  | .421 | 10.69 |
|      |   | 500  | 152.4 | 42.0 | 19.1 |      |       |
|      |   | 1000 | 304.8 | 83.0 | 37.7 |      |       |

For Plenum version of 9731, see 89731.

|      |   |      |       |       |      |      |       |
|------|---|------|-------|-------|------|------|-------|
| 9732 | 9 | 100  | 30.5  | 11.9  | 5.4  | .488 | 12.40 |
|      |   | 500  | 152.4 | 58.0  | 26.4 |      |       |
|      |   | 1000 | 304.8 | 108.0 | 49.1 |      |       |

For Plenum version of 9732, see 89732.

|      |    |      |       |       |      |      |       |
|------|----|------|-------|-------|------|------|-------|
| 9733 | 11 | 500  | 152.4 | 75.0  | 34.1 | .575 | 14.61 |
| 9734 | 12 | 500  | 152.4 | 79.5  | 36.1 | .575 | 14.61 |
|      |    | 1000 | 304.8 | 154.0 | 70.0 |      |       |

For Plenum version of 9734, see 89734.

|      |    |      |       |       |       |      |       |
|------|----|------|-------|-------|-------|------|-------|
| 9735 | 15 | 500  | 152.4 | 95.0  | 43.2  | .639 | 16.23 |
|      |    | 1000 | 304.8 | 185.0 | 84.1  |      |       |
| 9736 | 17 | 500  | 152.4 | 103.5 | 47.0  | .671 | 17.04 |
|      |    | 1000 | 304.8 | 210.0 | 95.5  |      |       |
| 9737 | 19 | 1000 | 304.8 | 231.0 | 105.0 | .671 | 17.04 |
| 9738 | 27 | 1000 | 304.8 | 334.0 | 151.8 | .797 | 20.24 |



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**1-800-527-0010**

## AES/EBU Digital Audio Cable

Plenum-Rated, Multi-Pair Snake Cables  
Individually Shielded Pairs



### Individually Shielded Pairs

NEC: CMP (CEC: CMP FT6)

### Product Description

**24 AWG** stranded (7x32) tinned copper conductor. Foam FEP insulation. Twisted pairs individually shielded with 100% Beldfoil®. Overall Gray fluorocopolymer jacket (except 82729 which has Natural Flamarrest® jacket). 24 AWG stranded tinned copper drain wire.

**Color Code:** See Chart 5 (in Technical Information Section)

### Specifications

**Nominal OD — Conductor** .024" (.60mm)

**Nominal OD — Insulation** .062" (1.57mm)

#### Approvals

NEC CMP  
CEC CMP FT6

**UL Ratings** Non-conduit

**Voltage Rating** 300V RMS

#### Nominal DCR

Conductor 23.3Ω/M' (76.4Ω/km)  
Shield 14.4Ω/M' (47.2Ω/km)

**Nominal Impedance** 100Ω

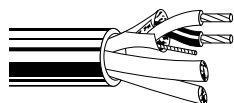
**Nominal Velocity of Propagation** 76%

#### Nominal Capacitance

Between Conductors 13.5 pF/Ft. (44 pF/m)  
Between Conductor/Shield\* 22.5 pF/Ft. (73.8 pF/m)

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



| Part No. | No. of Pairs | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    |
|----------|--------------|------------------|---|----------------------|----|------------|----|
|          |              | Ft.              | m | Lbs.                 | kg | Inch       | mm |

### Plenum Individually Shielded NEC: CMP (CEC: CMP FT6)

| 24 AWG |    |                |                  |                |              |      |       |
|--------|----|----------------|------------------|----------------|--------------|------|-------|
| 82729  | 2  | U-1000<br>1000 | U-304.8<br>304.8 | 27.0<br>28.0   | 12.3<br>12.7 | .255 | 6.48  |
| 89729  | 2  | 500<br>1000    | 152.4<br>304.8   | 18.5<br>31.0   | 8.4<br>14.1  | .261 | 6.63  |
| 89730  | 3  | 500<br>1000    | 152.4<br>304.8   | 23.0<br>40.0   | 10.5<br>18.2 | .278 | 7.06  |
| 89728  | 4  | 500<br>1000    | 152.4<br>304.8   | 26.5<br>50.0   | 12.0<br>22.7 | .307 | 7.80  |
| 89705  | 5  | 500<br>1000    | 152.4<br>304.8   | 30.5<br>62.0   | 13.9<br>28.2 | .327 | 8.31  |
| 89731  | 6  | 500<br>1000    | 152.4<br>304.8   | 35.0<br>71.0   | 15.9<br>32.3 | .361 | 9.17  |
| 89757  | 7  | 500<br>1000    | 152.4<br>304.8   | 39.5<br>80.0   | 18.0<br>36.4 | .361 | 9.17  |
| 89732  | 9  | 1000           | 304.8            | 106.0          | 48.2         | .429 | 10.90 |
| 89734  | 12 | 500<br>1000    | 152.4<br>304.8   | 71.0<br>140.0  | 32.3<br>63.6 | .498 | 12.65 |
| 89758  | 18 | 500<br>1000    | 152.4<br>304.8   | 100.5<br>204.0 | 45.7<br>92.7 | .616 | 15.65 |

Spools are one piece, but length may vary ±10% from length shown.

# Audio Wire and Cable

## Overview



### Electrolytic Tough Pitch (ETP) High-conductivity Copper Speaker Cables

Speaker cables are used to connect receivers or power amplifiers to speakers and are also used for the internal wiring of the speakers themselves.

#### High-conductivity Copper

All Belden® speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch. This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115. The high purity obtained from ETP copper results in audio cable performance that is comparable to that of oxygen-free copper cables.

#### Gage Selection

Because the impedance of the loud-speaker is quite low (typically 3 to 10 ohms) much of the power conducted through the cable is carried in the current domain which is affected by conductor resistance. The resistance of the cable between the speaker and the amplifier turns some of the amplifier's power into heat and does not get to the speaker.

The feedback from the speaker is altered by the cable. This feedback is used by the amplifier to correct the speaker's non-linearity. It is measured as the Damping factor by amplifier designers and is called "Servoing" by the Hi-fi community.

In general, the higher the cable resistance, the lower the power level getting to the speaker, resulting in "sloppier" speaker performance due to damping.

Ultimately, the system designer must decide how to compromise system performance against system cost. In general, one of the least expensive ways to squeeze more and better performance out of the system hardware is to use larger speaker cables and cut your losses where they occur rather than try to "Band-Aid" the system later with equalization or more power.

The Cable Selection Guide can aid in determining the proper gage selection depending on the speaker impedance, acceptable power loss and cable run length.

### Cable Selection Guide

| AWG | 4Ω Speaker                |            |            | 8Ω Speaker |            |            | 70V Speaker* |            |            |
|-----|---------------------------|------------|------------|------------|------------|------------|--------------|------------|------------|
|     | Power (%) / Loss (dB/Ft.) |            |            |            |            |            |              |            |            |
|     | 11%<br>.5                 | 21%<br>1.0 | 50%<br>3.0 | 11%<br>.5  | 21%<br>1.0 | 50%<br>3.0 | 11%<br>.5    | 21%<br>1.0 | 50%<br>3.0 |
| 12  | 140                       | 305        | 1150       | 285        | 610        | 2285       | 6920         | 14890      | 56000      |
| 14  | 90                        | 195        | 740        | 185        | 395        | 1480       | 4490         | 9650       | 36300      |
| 16  | 60                        | 125        | 470        | 115        | 250        | 935        | 2840         | 6100       | 22950      |
| 18  | 40                        | 90         | 340        | 85         | 190        | 685        | 2070         | 4450       | 16720      |
| 20  | 25                        | 50         | 195        | 50         | 105        | 390        | 1170         | 2520       | 9500       |
| 22  | 15                        | 35         | 135        | 35         | 70         | 275        | 820          | 1770       | 6650       |
| 24  | 10                        | 25         | 85         | 20         | 45         | 170        | 520          | 1120       | 4210       |

The number of feet of cable you can run for a given loss and performance budget.

#### How to Use the Guide

**Step One** Select the appropriate speaker impedance column.

**Step Two** Select the appropriate power loss column deemed to be acceptable.

**Step Three** Select the applicable wire gage size and follow the row over to the columns determined in steps one and two. The number listed is the maximum cable run length.

**Example** The maximum run for 12 AWG in a 4 Ohm speaker system with 11% or .5 dB loss is 140 ft.

\*70 volt line drive systems, while considered a potential for Hi-fi performance, follow the same cable loss physics as the higher current (lower impedance) system. For the sake of this calculation a 25 watt 70 volts system (196W) was used.



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1-800-527-0010

## Audio Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables  
Parallel Zip Constructions

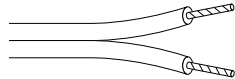


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|----------------------|----|------------|----|
|             |          |                              |                    | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

**24 AWG** Stranded (7x32) ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

**PVC Insulation • PVC Jacket** (Available in Clear, White, Brown or Chrome)

|                                  |             |  |   |          |         |     |     |      |     |      |      |
|----------------------------------|-------------|--|---|----------|---------|-----|-----|------|-----|------|------|
| 300V 60°C (Clear)                | <b>8782</b> |  | 2 | U-1000 ▲ | U-304.8 | 6.0 | 2.7 | .017 | .43 | .058 | 1.47 |
| 300V 75°C (Chrome, Brown, White) |             |  |   | 1000 •   | 304.8   | 7.0 | 3.2 |      |     | x    | x    |
|                                  |             |  |   |          |         |     |     |      |     | .116 | 2.95 |



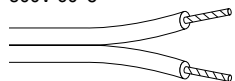
▲U-1000 ft. put-up available in Brown or Chrome only.

•1000 ft. put-up available in White or Clear only.

**22 AWG** Stranded (7x30) ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

**PVC Insulation • Clear PVC Jacket**

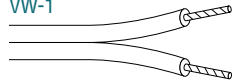
|           |             |  |   |      |       |     |     |      |     |      |      |
|-----------|-------------|--|---|------|-------|-----|-----|------|-----|------|------|
| 300V 60°C | <b>9712</b> |  | 2 | 1000 | 304.8 | 9.0 | 4.1 | .017 | .43 | .065 | 1.65 |
|           |             |  |   |      |       |     |     |      |     | x    | x    |
|           |             |  |   |      |       |     |     |      |     | .130 | 3.30 |



**20 AWG** Stranded (7x28) ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

**PVC Insulation • Clear or Chrome PVC Jacket**

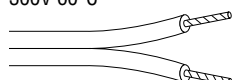
|           |             |  |   |      |       |      |     |      |     |      |      |
|-----------|-------------|--|---|------|-------|------|-----|------|-----|------|------|
| 300V 60°C | <b>8649</b> |  | 2 | 1000 | 304.8 | 12.0 | 5.5 | .018 | .46 | .073 | 1.85 |
| VW-1      |             |  |   |      |       |      |     |      |     | x    | x    |
|           |             |  |   |      |       |      |     |      |     | .146 | 3.71 |



**18 AWG** Stranded (16x30) ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

**PVC Insulation • Clear PVC Jacket**

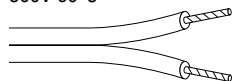
|           |             |  |   |        |         |      |     |      |     |      |      |
|-----------|-------------|--|---|--------|---------|------|-----|------|-----|------|------|
| 300V 60°C | <b>9708</b> |  | 2 | 100    | 30.4    | 2.8  | 1.3 | .032 | .81 | .110 | 2.79 |
|           |             |  |   | U-500  | U-152.4 | 10.5 | 4.8 |      |     | x    | x    |
|           |             |  |   | 500    | 152.4   | 10.5 | 4.8 |      |     | .220 | 5.59 |
|           |             |  |   | U-1000 | U-304.8 | 20.0 | 9.1 |      |     |      |      |
|           |             |  |   | 1000   | 304.8   | 21.0 | 9.5 |      |     |      |      |



**16 AWG** Stranded (26x30) ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

**PVC Insulation • Clear PVC Jacket**

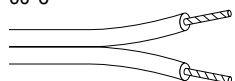
|           |             |  |   |        |         |     |     |      |     |      |      |
|-----------|-------------|--|---|--------|---------|-----|-----|------|-----|------|------|
| 300V 60°C | <b>9716</b> |  | 2 | U-1000 | U-304.8 | 8.0 | 3.6 | .027 | .69 | .115 | 2.92 |
|           |             |  |   | 1000   | 304.8   | 7.0 | 3.2 |      |     | x    | x    |
|           |             |  |   |        |         |     |     |      |     | .230 | 5.84 |



**14 AWG** Stranded (19x27) ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

**PVC Insulation • Clear PVC Jacket**

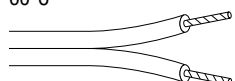
|      |             |  |   |        |         |      |      |      |     |      |      |
|------|-------------|--|---|--------|---------|------|------|------|-----|------|------|
| 60°C | <b>9717</b> |  | 2 | U-1000 | U-304.8 | 43.0 | 19.5 | .035 | .89 | .146 | 3.71 |
|      |             |  |   | 1000   | 304.8   | 42.0 | 19.1 |      |     | x    | x    |
|      |             |  |   |        |         |      |      |      |     | .292 | 7.42 |



**12 AWG** Stranded (65x30) ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

**PVC Insulation • Clear PVC Jacket**

|      |             |  |   |      |       |      |      |      |      |      |      |
|------|-------------|--|---|------|-------|------|------|------|------|------|------|
| 60°C | <b>9718</b> |  | 2 | 500  | 152.4 | 33.0 | 15.0 | .045 | 1.14 | .185 | 4.70 |
|      |             |  |   | 1000 | 304.8 | 66.0 | 30.0 |      |      | x    | x    |
|      |             |  |   |      |       |      |      |      |      | .370 | 9.40 |



## Audio Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables  
Open Twisted Construction



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|----------------------|----|------------|----|
|             |          |                              |                    | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

**22 AWG** Stranded (7x30) ETP High-conductivity Copper • Cabled: (1) Tinned, (1) Bare

### PVC Insulation

UL Listed. Wires Misc. 90V 90°C  
VW-1



**18 AWG** Stranded (7x26) ETP High-conductivity Tinned Copper • Cabled

### PVC Insulation • (Color Code: Black, White)

UL AWM Style 1007 (300V 80°C)  
VW-1



**18 AWG** Stranded (19x30) ETP High-conductivity Bare Copper • Cabled

### Plenum • Flamarrest® Insulation • (Color Code: Black, White)

75°C, Non-conduit  
1863A NEC: CL2P



**16 AWG** Stranded (19x29) ETP High-conductivity Tinned Copper • Cabled

### PVC Insulation • (Color Code: Black & White for 8470; Black & Orange for 9497)

UL AWM Style 1007 (300V 80°C)  
VW-1



**9497** 2 1000 304.8 30.0 13.6 .023 .58 .210 5.33

**16 AWG** Stranded (19x29) ETP High-conductivity Bare Copper • Cabled

### Plenum • Flamarrest® Insulation • (Color Code: Black, White)

75°C, Non-conduit  
1862A NEC: CL2P



## Audio Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables  
Open Twisted Construction



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|----------------------|----|------------|----|
|             |          |                              |                    | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

**14 AWG** Stranded (19x26) ETP High-conductivity Bare Copper • Cabled

**Plenum • Flamarrest® Insulation • PVC Jacket** (Color Code: Black, White)

|                   |              |              |   |      |       |      |      |      |     |      |      |
|-------------------|--------------|--------------|---|------|-------|------|------|------|-----|------|------|
| 75°C, Non-conduit | <b>1861A</b> | NEC:<br>CL2P | 2 | 1000 | 304.8 | 35.0 | 15.9 | .022 | .56 | .236 | 5.99 |
|-------------------|--------------|--------------|---|------|-------|------|------|------|-----|------|------|



**12 AWG** Stranded (19x25) ETP High-conductivity Bare Copper • Cabled

**Plenum • Flamarrest Insulation • PVC Jacket** (Color Code: Black, White)

|                   |              |              |   |      |       |      |      |      |     |      |      |
|-------------------|--------------|--------------|---|------|-------|------|------|------|-----|------|------|
| 75°C, Non-conduit | <b>1860A</b> | NEC:<br>CL2P | 2 | 1000 | 304.8 | 58.0 | 26.4 | .022 | .56 | .270 | 6.86 |
|-------------------|--------------|--------------|---|------|-------|------|------|------|-----|------|------|



## Audio Wire and Cable

Electrolytic Tough Pitch (ETP) High-Conductivity Copper Speaker Cables  
Twisted Jacketed Construction



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

### 22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled

#### PVC Insulation • Chrome PVC Jacket

|                                                                                  |             |         |   |               |        |         |       |      |      |     |      |     |      |      |
|----------------------------------------------------------------------------------|-------------|---------|---|---------------|--------|---------|-------|------|------|-----|------|-----|------|------|
|  | <b>8442</b> | NEC:    | 2 | Black,<br>Red | 100    | 30.5    | 2.2   | 1.0  | .015 | .38 | .025 | .64 | .170 | 4.32 |
|                                                                                  |             | CMG     |   |               | U-500  | U-152.4 | 7.5   | 3.4  |      |     |      |     |      |      |
|                                                                                  |             | CEC:    |   |               | 500    | 152.4   | 7.5   | 3.4  |      |     |      |     |      |      |
|                                                                                  |             | CMG FT4 |   |               | U-1000 | U-304.8 | 15.0  | 6.8  |      |     |      |     |      |      |
|                                                                                  |             |         |   |               | 1000   | 304.8   | 15.0  | 6.8  |      |     |      |     |      |      |
|                                                                                  |             |         |   |               | 10000  | 3048.0  | 150.0 | 68.2 |      |     |      |     |      |      |

For Plenum versions of 8442,  
see 88442 or 82442.

### 20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pairs

#### PVC Insulation • Chrome PVC Jacket

|                                                                                  |             |         |   |               |        |         |      |     |      |     |      |     |      |      |
|----------------------------------------------------------------------------------|-------------|---------|---|---------------|--------|---------|------|-----|------|-----|------|-----|------|------|
|  | <b>8205</b> | NEC:    | 2 | Black,<br>Red | 100    | 30.5    | 2.5  | 1.1 | .013 | .33 | .025 | .64 | .180 | 4.57 |
|                                                                                  |             | CMG     |   |               | U-500  | U-152.4 | 9.0  | 4.1 |      |     |      |     |      |      |
|                                                                                  |             | CEC:    |   |               | 500    | 152.4   | 9.0  | 4.1 |      |     |      |     |      |      |
|                                                                                  |             | CMG FT4 |   |               | U-1000 | U-304.8 | 17.0 | 7.7 |      |     |      |     |      |      |
|                                                                                  |             |         |   |               | 1000   | 304.8   | 18.0 | 8.2 |      |     |      |     |      |      |

### 18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair

#### PVC Insulation • Chrome PVC Jacket

|                                                                                   |             |         |   |                 |        |         |      |      |      |     |      |     |      |      |
|-----------------------------------------------------------------------------------|-------------|---------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|
|  | <b>8461</b> | NEC:    | 2 | Black,<br>White | 100    | 30.5    | 3.8  | 1.7  | .022 | .56 | .028 | .71 | .234 | 5.94 |
|                                                                                   |             | CMG     |   |                 | U-500  | U-152.4 | 14.0 | 6.4  |      |     |      |     |      |      |
|                                                                                   |             | CEC:    |   |                 | 500    | 152.4   | 14.0 | 6.4  |      |     |      |     |      |      |
|                                                                                   |             | CMG FT4 |   |                 | U-1000 | U-304.8 | 28.0 | 12.7 |      |     |      |     |      |      |
|                                                                                   |             |         |   |                 | 1000   | 304.8   | 28.0 | 12.7 |      |     |      |     |      |      |

### 16 AWG Stranded (19x29) Tinned Copper Conductors • Twisted Pair

#### PVC Insulation • Chrome PVC Jacket

|                                                                                    |             |         |   |                 |        |         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|-------------|---------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|
|  | <b>8471</b> | NEC:    | 2 | Black,<br>White | U-500  | U-152.4 | 20.0 | 9.1  | .023 | .58 | .032 | .81 | .274 | 6.96 |
|                                                                                    |             | CMG     |   |                 | 500    | 152.4   | 20.0 | 9.1  |      |     |      |     |      |      |
|                                                                                    |             | CEC:    |   |                 | U-1000 | U-304.8 | 39.0 | 17.7 |      |     |      |     |      |      |
|                                                                                    |             | CMG FT4 |   |                 | 1000   | 304.8   | 40.0 | 18.2 |      |     |      |     |      |      |
|                                                                                    |             |         |   |                 |        |         |      |      |      |     |      |     |      |      |

### 14 AWG Stranded (42x30) Tinned Copper Conductors • Twisted Pair

#### PVC Insulation • Chrome PVC Jacket

|                                                                                    |             |            |   |                 |       |         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|-------------|------------|---|-----------------|-------|---------|------|------|------|-----|------|-----|------|------|
|  | <b>8473</b> | NEC:       | 2 | Black,<br>White | U-500 | U-152.4 | 29.5 | 13.4 | .031 | .79 | .032 | .81 | .340 | 8.64 |
|                                                                                    |             | CL3        |   |                 | 500   | 152.4   | 30.5 | 13.9 |      |     |      |     |      |      |
|                                                                                    |             | CEC:       |   |                 | 1000  | 304.8   | 58.0 | 26.4 |      |     |      |     |      |      |
|                                                                                    |             | FAS 90 FT4 |   |                 |       |         |      |      |      |     |      |     |      |      |
|                                                                                    |             |            |   |                 |       |         |      |      |      |     |      |     |      |      |

See NEC Guidelines for applicable CL3 voltage ratings.

### 12 AWG Stranded (65x30) Tinned Copper Conductors • Twisted Pair

#### PVC Insulation • Chrome PVC Jacket

|                                                                                    |             |      |   |                 |       |         |      |      |      |     |      |     |      |      |
|------------------------------------------------------------------------------------|-------------|------|---|-----------------|-------|---------|------|------|------|-----|------|-----|------|------|
|  | <b>8477</b> | NEC: | 2 | Black,<br>White | U-500 | U-152.4 | 42.0 | 19.1 | .032 | .81 | .035 | .89 | .386 | 9.80 |
|                                                                                    |             | CL3R |   |                 | 500   | 152.4   | 42.0 | 19.1 |      |     |      |     |      |      |
|                                                                                    |             |      |   |                 | 1000  | 304.8   | 83.0 | 37.7 |      |     |      |     |      |      |
|                                                                                    |             |      |   |                 |       |         |      |      |      |     |      |     |      |      |
|                                                                                    |             |      |   |                 |       |         |      |      |      |     |      |     |      |      |

See NEC Guidelines for applicable CL3 voltage ratings.



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## Audio Wire and Cable

High-Flex Multi-Conductor Cables

Bi-amp and Tri-amp Speaker Connections

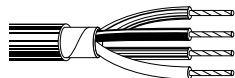


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch       | mm |

**14 AWG** Stranded (104x34) Bare Copper • Conductors Cabled with Fillers • Paper Wrap

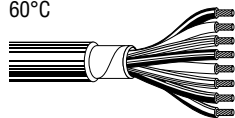
### PVC Insulation • Overall Matte Black PVC Jacket

|                          |              |  |   |                                   |      |       |       |      |      |     |      |      |      |      |
|--------------------------|--------------|--|---|-----------------------------------|------|-------|-------|------|------|-----|------|------|------|------|
| <b>High-Flex</b><br>60°C | <b>1810A</b> |  | 4 | Red,<br>Green,<br>White,<br>Black | 250  | 76.2  | 28.0  | 12.7 | .025 | .64 | .040 | 1.02 | .390 | 9.91 |
|                          |              |  |   |                                   | 500  | 152.4 | 57.0  | 25.9 |      |     |      |      |      |      |
|                          |              |  |   |                                   | 1000 | 304.8 | 112.0 | 50.9 |      |     |      |      |      |      |
|                          |              |  |   |                                   |      |       |       |      |      |     |      |      |      |      |



Compatible with Neutrik Speakon® Connectors.

|                          |              |  |   |                                                                            |      |       |       |      |      |     |      |      |      |       |
|--------------------------|--------------|--|---|----------------------------------------------------------------------------|------|-------|-------|------|------|-----|------|------|------|-------|
| <b>High-Flex</b><br>60°C | <b>1811A</b> |  | 8 | Brown,<br>Red,<br>Orange,<br>Yellow,<br>Green,<br>White,<br>Blue,<br>Black | 1000 | 304.8 | 206.0 | 93.6 | .025 | .64 | .040 | 1.02 | .515 | 13.08 |
|                          |              |  |   |                                                                            |      |       |       |      |      |     |      |      |      |       |
|                          |              |  |   |                                                                            |      |       |       |      |      |     |      |      |      |       |
|                          |              |  |   |                                                                            |      |       |       |      |      |     |      |      |      |       |



Compatible with Neutrik Speakon® Connectors.

**10 AWG** Stranded (65x28) Bare High-conductivity ETP Copper • Rip Cord

### High-grade PVC Insulation • PVC Jacket (Available in Black, Blue, Green, White or Gray)

|                          |                                     |                                  |   |                 |      |       |      |      |      |     |      |     |      |      |
|--------------------------|-------------------------------------|----------------------------------|---|-----------------|------|-------|------|------|------|-----|------|-----|------|------|
| <b>High-Flex</b><br>75°C | <b>5T00UP</b><br><small>new</small> | NEC:<br>CL2<br>Audio<br>Use Only | 2 | Black,<br>White | 500  | 152.4 | 44.0 | 20.0 | .015 | .38 | .026 | .66 | .356 | 9.04 |
|                          |                                     |                                  |   |                 | 1000 | 304.8 | 87.0 | 39.5 |      |     |      |     |      |      |
|                          |                                     |                                  |   |                 |      |       |      |      |      |     |      |     |      |      |
|                          |                                     |                                  |   |                 |      |       |      |      |      |     |      |     |      |      |



For Plenum version of 5T00UP, see 6T00UP.

Jacket sequentially marked at 2 ft. intervals.

**10 AWG** Stranded (65x28) Bare Copper • Cabled • Rip Cord

### Plenum • Flamarrest® Insulation • Natural Flamarrest Jacket

|                               |               |                                   |   |                 |      |       |      |      |      |     |      |     |      |      |
|-------------------------------|---------------|-----------------------------------|---|-----------------|------|-------|------|------|------|-----|------|-----|------|------|
| <b>High-Flex</b><br>150V 75°C | <b>6T00UP</b> | NEC:<br>CL2P<br>Audio<br>Use Only | 2 | Black,<br>White | 1000 | 304.8 | 83.0 | 37.8 | .011 | .28 | .015 | .38 | .308 | 7.82 |
|                               |               |                                   |   |                 |      |       |      |      |      |     |      |     |      |      |
|                               |               |                                   |   |                 |      |       |      |      |      |     |      |     |      |      |
|                               |               |                                   |   |                 |      |       |      |      |      |     |      |     |      |      |



Jacket sequentially marked at 2 ft. intervals.

Neutrik is a Liechtenstein Corporation trademark.



## Special Application

### Audio, Communication and Instrumentation Cable

Audio Connecting Cables and Dual Channel Audio Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**25 AWG** Stranded (7x33) • (3) Tinned Copper, (4) Tinned Copper Covered Steel • Double Beldfoil® Shield • 26 AWG Stranded TC Drain Wire

#### FPE Insulation • Chrome PVC Jacket

|                           |      |  |   |  |     |      |     |     |      |     |      |     |      |      |    |    |   |   |
|---------------------------|------|--|---|--|-----|------|-----|-----|------|-----|------|-----|------|------|----|----|---|---|
| Miniature<br>80°C<br>VW-1 | 8417 |  | 1 |  | 250 | 76.2 | 3.3 | 1.5 | .020 | .51 | .026 | .66 | .140 | 3.56 | 29 | 95 | — | — |
|---------------------------|------|--|---|--|-----|------|-----|-----|------|-----|------|-----|------|------|----|----|---|---|



**25 AWG** Stranded (7x33) • (3) Tinned Copper, (4) Tinned Copper Covered Steel • Tinned Copper Spiral Wrapped Shield (86% Coverage)

#### FPE Insulation • Chrome PVC Jacket

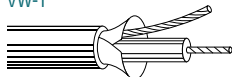
|                         |      |  |   |  |     |      |     |     |      |      |      |     |      |      |    |    |   |   |
|-------------------------|------|--|---|--|-----|------|-----|-----|------|------|------|-----|------|------|----|----|---|---|
| Low-Capacitance<br>80°C | 8421 |  | 1 |  | 250 | 76.2 | 5.3 | 2.4 | .051 | 1.30 | .023 | .58 | .180 | 4.57 | 16 | 53 | — | — |
|-------------------------|------|--|---|--|-----|------|-----|-----|------|------|------|-----|------|------|----|----|---|---|



**24 AWG** Uni-strand (7x32) • Beldfoil Shield

#### Flame-retardant Polyethylene Insulation • Black PVC Jacket

|                                          |      |  |   |  |      |       |      |     |      |     |      |     |      |      |    |     |   |   |
|------------------------------------------|------|--|---|--|------|-------|------|-----|------|-----|------|-----|------|------|----|-----|---|---|
| UL AWM Style 1770<br>(300V 80°C)<br>VW-1 | 9264 |  | 1 |  | 1000 | 304.8 | 14.0 | 6.4 | .027 | .69 | .020 | .51 | .122 | 3.10 | 34 | 112 | — | — |
|                                          |      |  |   |  |      |       |      |     |      |     |      |     | x    | x    |    |     |   |   |
|                                          |      |  |   |  |      |       |      |     |      |     |      |     | .146 | 3.71 |    |     |   |   |

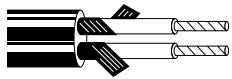


Nominal impedance: 50 ohms.  
Tear-drop, machine strippable coaxial cable.

**Dual Channel • 30 AWG** Stranded (7x38) Tinned Copper Covered Steel • Individual Tinned Copper Spiral Wrapped Shield (85% Coverage)

#### FPE Insulation • Black PVC Jacket • Polarity Ribbed

|                         |      |  |   |  |     |      |     |     |      |      |      |     |      |      |         |    |   |   |
|-------------------------|------|--|---|--|-----|------|-----|-----|------|------|------|-----|------|------|---------|----|---|---|
| Low-Capacitance<br>70°C | 9454 |  | 2 |  | 100 | 30.5 | 3.8 | 1.7 | .049 | 1.24 | .020 | .51 | .160 | 4.06 | 12      | 39 | — | — |
|                         |      |  |   |  |     |      |     |     |      |      |      |     | x    | x    | each    |    |   |   |
|                         |      |  |   |  |     |      |     |     |      |      |      |     | .320 | 8.13 | channel |    |   |   |

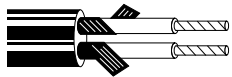


Stereo connecting cable

**Dual Channel • 25 AWG** Stranded (7x33) • (3) TC, (4) TCCS • Individual TC Spiral Wrapped Shield (90% Coverage)

#### Polyethylene Insulation • Gray PVC Jacket • Polarity Rib on Red Conductor

|      |      |  |   |  |     |      |     |     |      |     |      |     |      |      |         |     |   |   |
|------|------|--|---|--|-----|------|-----|-----|------|-----|------|-----|------|------|---------|-----|---|---|
| 80°C | 8416 |  | 2 |  | 250 | 76.2 | 5.3 | 2.4 | .018 | .46 | .020 | .51 | .106 | 2.69 | 36      | 118 | — | — |
|      |      |  |   |  |     |      |     |     |      |     |      |     | x    | x    | each    |     |   |   |
|      |      |  |   |  |     |      |     |     |      |     |      |     | .213 | 5.41 | channel |     |   |   |



For use with head sets, stereo and language labs.

FPE = Foam Polyethylene • TC = Tinned Copper • TCCS = Tinned Copper-covered Steel

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

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## Special Application

### Audio, Communication and Instrumentation Cable

Multimedia Control Cables and Microphone/Musical Instrument Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Jacket<br>Thickness |    | Nominal<br>OD |    | Nominal Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                | mm | Inch          | mm | *<br>pF/<br>Ft.     | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**22 AWG** Stranded (7x30) TC Twisted Data Pair w/ Beldfoil® Shield, TC Drain Wire • **18 AWG** (16x30) TC Unshielded Power Pair • Rip Cord

**FPE Insulation (Data) • F-R PVC Insulation (Power) • F-R PVC Jacket (Available in Black, White or Aqua)**

|           |                     |                                |               |                                                    |      |       |      |      |                                 |            |      |     |      |      |    |    |    |     |
|-----------|---------------------|--------------------------------|---------------|----------------------------------------------------|------|-------|------|------|---------------------------------|------------|------|-----|------|------|----|----|----|-----|
| 300V 75°C | <b>1502R</b><br>new | NEC:<br>CMR<br>CEC:<br>CMR FT4 | 1 STP<br>+2/C | Pair:<br>Blue,<br>White<br>Cond.:<br>Red,<br>Black | 1000 | 304.8 | 45.0 | 20.5 | Data:<br>.025<br>Power:<br>.013 | .64<br>.33 | .039 | .99 | .250 | 6.35 | 14 | 46 | 38 | 125 |
|-----------|---------------------|--------------------------------|---------------|----------------------------------------------------|------|-------|------|------|---------------------------------|------------|------|-----|------|------|----|----|----|-----|

Sequential footing marking every two feet.

**22 AWG** (7x30) TC Twisted Pair w/ Beldfoil Shield, TC Drain Wire • **18 AWG** (16x30) TC Unshielded • Polypropylene Binder Tape • Rip Cord

**Plenum • Foam FEP Insulation (Data) • Flamarrest® Insulation (Power) • Flamarrest Jacket (Natural)**

|           |                     |                                |               |                                                    |      |       |      |      |                                 |            |      |      |      |      |    |    |    |     |
|-----------|---------------------|--------------------------------|---------------|----------------------------------------------------|------|-------|------|------|---------------------------------|------------|------|------|------|------|----|----|----|-----|
| 300V 75°C | <b>1502P</b><br>new | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1 STP<br>+2/C | Pair:<br>Blue,<br>White<br>Cond.:<br>Red,<br>Black | 1000 | 304.8 | 40.0 | 18.2 | Data:<br>.025<br>Power:<br>.011 | .64<br>.28 | .015 | .381 | .205 | 5.21 | 14 | 46 | 38 | 125 |
|-----------|---------------------|--------------------------------|---------------|----------------------------------------------------|------|-------|------|------|---------------------------------|------------|------|------|------|------|----|----|----|-----|

**Mic • 20 AWG** Stranded (19x32) High-conductivity Tinned Copper • Conductors Cabled • Rayon Braid • TC Braid Shield (84% Coverage)

**Polyethylene Insulation • Chrome PVC Jacket**

|                                                           |             |   |                                            |      |       |      |      |      |     |      |     |      |      |    |    |    |     |
|-----------------------------------------------------------|-------------|---|--------------------------------------------|------|-------|------|------|------|-----|------|-----|------|------|----|----|----|-----|
| Low-Impedance<br>UL AWM Style 2094<br>(300V 80°C)<br>VW-1 | <b>8405</b> | 5 | Black,<br>Clear,<br>Green,<br>Red,<br>Blue | 250  | 46.2  | 18.5 | 8.4  | .016 | .41 | .035 | .89 | .281 | 7.14 | 23 | 76 | 40 | 131 |
|                                                           |             |   |                                            | 500  | 152.4 | 31.5 | 14.3 |      |     |      |     |      |      |    |    |    |     |
|                                                           |             |   |                                            | 1000 | 304.8 | 63.0 | 28.6 |      |     |      |     |      |      |    |    |    |     |

**Mic • 20 AWG** Stranded (26x34) High-conductivity TC • Cotton Wrap • Conductors Cabled • Rayon Braid • 85% TC Braid Shield

**Rubber Insulation • Black EPDM Rubber Jacket**

|                                |             |                                 |                                                |     |      |      |      |      |     |      |      |      |      |    |    |    |     |
|--------------------------------|-------------|---------------------------------|------------------------------------------------|-----|------|------|------|------|-----|------|------|------|------|----|----|----|-----|
| Low-Impedance<br>600V RMS 60°C | <b>8425</b> | 5                               | Blue,<br>Orange,<br>Black,<br>White,<br>Brown, | 100 | 30.5 | 7.8  | 3.5  | .023 | .58 | .031 | .79  | .318 | 8.08 | 30 | 98 | 55 | 180 |
|                                |             |                                 |                                                | 250 | 46.2 | 21.3 | 9.7  |      |     |      |      |      |      |    |    |    |     |
|                                | <b>8426</b> | 6 (Same as 8425)<br>+<br>Green  |                                                | 100 | 30.5 | 9.0  | 4.1  | .023 | .58 | .037 | .94  | .342 | 8.69 | 30 | 98 | 55 | 180 |
|                                |             |                                 |                                                | 250 | 46.2 | 22.3 | 10.1 |      |     |      |      |      |      |    |    |    |     |
|                                | <b>8427</b> | 7 (Same as 8426)<br>+<br>Red    |                                                | 100 | 30.5 | 9.8  | 4.5  | .023 | .58 | .041 | 1.04 | .355 | 9.02 | 30 | 98 | 55 | 180 |
|                                |             |                                 |                                                | 250 | 46.2 | 24.3 | 11.0 |      |     |      |      |      |      |    |    |    |     |
|                                | <b>8418</b> | 8 (Same as 8427)<br>+<br>Yellow |                                                | 100 | 30.5 | 11.0 | 5.0  | .023 | .58 | .037 | .94  | .381 | 9.68 | 30 | 98 | 55 | 180 |
|                                |             |                                 |                                                | 250 | 46.2 | 27.0 | 12.3 |      |     |      |      |      |      |    |    |    |     |

BC = Bare Copper • EPDM = Ethylene-propylene-diene Monomer Rubber • FPE = Foam Polyethylene • F-R = Flame-retardant • STP = Shielded Twisted Pair • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

## Standard Analog Video Cable

### 75 Ohm Miniature Coax

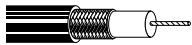


Belden standard video cables are typically used in non-critical video applications such as video equipment rack wiring, closed circuit TV(CCTV), master antenna TV(MATV) and color or monochrome video monitor hook-ups. Applications such as these do not require Precision Video coaxes which have extremely tight electrical tolerances. (See Precision Video cables, pages 12.48 through 12.56.)

Video coax cables have a characteristic impedance of 75 ohms. This value was not chosen arbitrarily. Physics shows that optimum attenuation characteristics occur at 77 ohms. Materials and design lead to the selection of 75 ohms as the optimum compromise for low power applications.

Standard video coaxes are available in both solid and stranded designs. Stranded designs are recommended for flexing applications such as interconnection of CCTV cameras with pan and tilt capabilities, or remote camera hook-ups where the cable is constantly being spooled and despoiled from a reel. Belden's Brilliance high-flex part no. 8241F is ideal for these types of applications.

| Description                                                                        | Part No.    | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |         | Standard Unit Weight |     | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |      | Shielding<br>Materials<br>Nom. DCR | Nominal OD |      | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|------------------------------------------------------------------------------------|-------------|------------------------------|------------------|---------|----------------------|-----|--------------------------------------------------|-----------------|------|------------------------------------|------------|------|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|                                                                                    |             |                              | Ft.              | m       | Lbs.                 | kg  |                                                  | Inch            | mm   |                                    | Inch       | mm   |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |
| <b>30 AWG Stranded (7x38) .012" Tinned Copper • 89% Tinned Copper Braid Shield</b> |             |                              |                  |         |                      |     |                                                  |                 |      |                                    |            |      |                  |                       |                     |      |                     |                |             |
| <b>Foam HDPE Insulation • Black PVC Jacket</b>                                     |             |                              |                  |         |                      |     |                                                  |                 |      |                                    |            |      |                  |                       |                     |      |                     |                |             |
| UL AWM                                                                             | <b>9221</b> |                              | 100              | 30.5    | 2.3                  | 1.0 | 30 AWG                                           | .058            | 1.47 | TC Braid                           | .097       | 2.46 | 75               | 78%                   | 17.3                | 56.8 | 1                   | .7             | 2.3         |
| Style 1375                                                                         |             |                              | U-500            | U-152.4 | 3.5                  | 1.6 | (7x38)                                           |                 |      | 89% Shield                         |            |      |                  |                       |                     |      | 4                   | 1.3            | 4.3         |
| (30V 60°C)                                                                         |             |                              | 500              | 152.4   | 4.5                  | 2.0 | .012"                                            |                 |      | Coverage                           |            |      |                  |                       |                     |      | 5                   | 1.6            | 5.2         |
|                                                                                    |             |                              |                  |         |                      |     | TC                                               |                 |      | 11.7Ω/M'                           |            |      |                  |                       |                     |      | 10                  | 2.2            | 7.2         |
|                                                                                    |             |                              |                  |         |                      |     | 100.0Ω/M'                                        |                 |      | 38.4Ω/km                           |            |      |                  |                       |                     |      | 50                  | 5.1            | 16.7        |
|                                                                                    |             |                              |                  |         |                      |     |                                                  |                 |      |                                    |            |      |                  |                       |                     |      | 100                 | 7.3            | 23.9        |
|                                                                                    |             |                              |                  |         |                      |     |                                                  |                 |      |                                    |            |      |                  |                       |                     |      | 200                 | 10.5           | 34.4        |
|                                                                                    |             |                              |                  |         |                      |     |                                                  |                 |      |                                    |            |      |                  |                       |                     |      | 400                 | 15.5           | 50.9        |
|                                                                                    |             |                              |                  |         |                      |     |                                                  |                 |      |                                    |            |      |                  |                       |                     |      | 1000                | 26.6           | 87.3        |



### 27 AWG Stranded (7x35) .017" Bare Copper-covered Steel • 93% Tinned Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket |      |        |         |      |           |           |      |      |            |      |      |    |     |      |      |      |      |      |  |
|--------------------------------------------|------|--------|---------|------|-----------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|--|
| UL AWM                                     | 8218 | U-500  | U-152.4 | 8.0  | 3.6       | 27 AWG    | .100 | 2.54 | TC Braid   | .150 | 3.81 | 75 | 66% | 20.5 | 67.3 | 1    | 1.2  | 3.9  |  |
| Style 1354                                 |      | 500    | 152.4   | 8.0  | 3.6       | (7x35)    |      |      | 93% Shield |      |      |    |     |      |      | 10   | 2.4  | 7.9  |  |
| (30V 60°C)                                 |      | U-1000 | U-304.8 | 16.0 | 7.3       | .017"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 4.2  | 13.8 |  |
|                                            |      | 1000   | 304.8   | 16.0 | 7.3       | BCCS      |      |      | 5.7Ω/M'    |      |      |    |     |      |      | 100  | 5.7  | 18.7 |  |
|                                            |      |        |         |      |           | 120.0Ω/M' |      |      | 18.7Ω/km   |      |      |    |     |      |      | 200  | 8.3  | 27.2 |  |
|                                            |      |        |         |      | 393.7Ω/km |           |      |      |            |      |      |    |     |      | 400  | 12.1 | 39.7 |      |  |
|                                            |      |        |         |      |           |           |      |      |            |      |      |    |     |      | 700  | 16.5 | 54.1 |      |  |
|                                            |      |        |         |      |           |           |      |      |            |      |      |    |     |      | 900  | 19.0 | 62.3 |      |  |
|                                            |      |        |         |      |           |           |      |      |            |      |      |    |     |      | 1000 | 20.0 | 65.6 |      |  |



BCCS = Bare Copper-covered Steel • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper



By:



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1-800-527-0010

# Standard Analog Video Cable

## 75 Ohm High-Frequency Cables

### Conformable® Coax Cable



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### 29 AWG Solid .011" Silver-coated Copper-covered Steel • Copper-Tin Composite Shield (100% Coverage)

| TFE Teflon® Insulation • Unjacketed |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |      |      |      |
|-------------------------------------|--------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|------|------|------|
| UL AWM                              | 1672A* |  | 500†  | 152.4 | 8.0  | 3.6 | 29 AWG    | .062 | 1.57 | CT          | .085 | 2.21 | 75 | 69.5% | 19.5 | 64.0 | 1    | 1.2  | 3.9  |
| Style 10245                         |        |  | 1000† | 304.8 | 14.0 | 6.4 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 10   | 2.4  | 7.9  |
| (30V 105°C)                         |        |  |       |       |      |     | .011"     |      |      | 100% Shield |      |      |    |       |      |      | 50   | 4.5  | 14.8 |
|                                     |        |  |       |       |      |     | SCCCS     |      |      | Coverage    |      |      |    |       |      |      | 100  | 6.6  | 21.6 |
|                                     |        |  |       |       |      |     | 205.0Ω/M' |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 200  | 10.0 | 32.8 |
|                                     |        |  |       |       |      |     | 672.4Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 400  | 15.0 | 49.2 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 500  | 17.0 | 55.8 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 700  | 21.0 | 68.9 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 900  | 24.0 | 78.7 |
|                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 1000 | 26.0 | 85.3 |



| TFE Teflon Insulation • PVC Jacket (Black or Clear) |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |      |      |      |
|-----------------------------------------------------|--------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|------|------|------|
| UL AWM                                              | 1672J* |  | 100†* | 30.5  | 3.1  | 1.4 | 29 AWG    | .062 | 1.57 | CT          | .127 | 3.23 | 75 | 69.5% | 19.5 | 64.0 | 1    | 1.2  | 3.9  |
| Style 10245                                         |        |  | 500†  | 152.4 | 9.5  | 4.3 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 10   | 2.4  | 7.9  |
| (30V 105°C)                                         |        |  | 1000† | 304.8 | 17.0 | 7.7 | .011"     |      |      | 100% Shield |      |      |    |       |      |      | 50   | 4.5  | 14.8 |
|                                                     |        |  |       |       |      |     | SCCCS     |      |      | Coverage    |      |      |    |       |      |      | 100  | 6.6  | 21.6 |
|                                                     |        |  |       |       |      |     | 205.0Ω/M' |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 200  | 10.0 | 32.8 |
|                                                     |        |  |       |       |      |     | 672.4Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 400  | 15.0 | 49.2 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 500  | 17.0 | 55.8 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 700  | 21.0 | 68.9 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 900  | 24.0 | 78.7 |
|                                                     |        |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 1000 | 26.0 | 85.3 |

\*100 ft. put-up available in Clear only.

#### 29 AWG Solid .011" Silver-plated Copper • Copper-Tin Composite Shield (100% Coverage)

| TFE Teflon Insulation • Unjacketed |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      |      |      |      |
|------------------------------------|------------|--|-------|-------|------|-----|-----------|------|------|-------------|------|------|----|-------|------|------|------|------|------|
| UL AWM                             | 1672B*     |  | 100†  | 30.5  | 3.3  | 1.5 | 29 AWG    | .062 | 1.57 | CT          | .087 | 2.21 | 75 | 69.5% | 19.5 | 64.0 | 1    | 1.2  | 3.9  |
| Style 10245                        | <b>new</b> |  | 500†  | 152.4 | 8.0  | 3.6 | (solid)   |      |      | Composite   |      |      |    |       |      |      | 10   | 2.4  | 7.9  |
| (30V 105°C)                        |            |  | 1000† | 304.8 | 14.0 | 6.4 | .011"     |      |      | 100% Shield |      |      |    |       |      |      | 50   | 4.5  | 14.8 |
|                                    |            |  |       |       |      |     | SPC       |      |      | Coverage    |      |      |    |       |      |      | 100  | 6.6  | 21.7 |
|                                    |            |  |       |       |      |     | 81.2Ω/M'  |      |      | 10.2Ω/M'    |      |      |    |       |      |      | 200  | 10.0 | 32.8 |
|                                    |            |  |       |       |      |     | 266.4Ω/km |      |      | 33.5Ω/km    |      |      |    |       |      |      | 400  | 15.0 | 49.2 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 500  | 17.0 | 55.8 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 700  | 21.0 | 68.9 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 900  | 24.0 | 78.7 |
|                                    |            |  |       |       |      |     |           |      |      |             |      |      |    |       |      |      | 1000 | 26.0 | 85.3 |

Non-ferrous design.

CT = Copper Tin • DCR = DC Resistance • SCCC = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

\*Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†50 ft. put-up: Exact 1 piece

100 ft. put-up: Exact 2 pieces (maximum), 25 feet minimum length

250 ft. put-up: Exact 3 pieces (maximum), 25 feet minimum length

500 ft. put-up: Exact 4 pieces (maximum), 25 feet minimum length

1000 ft. put-up: Exact 3 pieces (maximum), 328 feet minimum length

Teflon is a DuPont trademark.

# Standard Analog Video Cable

75 Ohm Coax  
RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

## 23 AWG Solid .023" Bare Copper or Bare Copper-covered Steel Conductor • 95% Bare Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket |      |      |        |         |       |      |           |      |      |            |      |      |    |     |      |      |      |      |      |
|--------------------------------------------|------|------|--------|---------|-------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                     | 8241 | NEC: | 100    | 30.5    | 5.0   | 2.3  | 23 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .6   | 2.0  |
| Style 1354                                 |      | CMX  | U-500  | U-152.4 | 20.5  | 9.3  | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
| (30V 75°C)                                 |      | CEC: | 500    | 152.4   | 22.5  | 10.2 | .023"     |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|                                            |      | CMX  | U-1000 | U-304.8 | 40.0  | 18.2 | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|                                            |      |      | 1000   | 304.8   | 41.0  | 18.6 | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|                                            |      |      | 2000   | 609.6   | 82.0  | 37.3 | 160.7Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|                                            |      |      | 5000   | 1524.0  | 205.0 | 93.2 |           |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |
|                                            |      |      |        |         |       |      |           |      |      |            |      |      |    |     |      |      | 900  | 11.1 | 36.4 |
|                                            |      |      |        |         |       |      |           |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |

\*U-1000 ft. put-up also available in Red, Yellow, Green, Lt. Blue, White, Orange and Black.

| Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      |      |      |      |
|----------------------------------------------------------------------|-------|---------|--------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                                               | 8241A | NEC:    | U-1000 | U-304.8 | 42.0 | 19.1 | 23 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .6   | 2.0  |
| Style 1354                                                           |       | CMG     | 1000   | 304.8   | 43.0 | 19.5 | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 5    | .9   | 3.0  |
| (30V 75°C)                                                           |       | CEC:    |        |         |      |      | .023"     |      |      | Coverage   |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
|                                                                      |       | CMG FT4 |        |         |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|                                                                      |       |         |        |         |      |      | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|                                                                      |       |         |        |         |      |      | 160.7Ω/km |      |      |            |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 700  | 10.1 | 33.1 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 900  | 11.7 | 38.2 |
|                                                                      |       |         |        |         |      |      |           |      |      |            |      |      |    |     |      |      | 1000 | 13.2 | 43.3 |

| Polyethylene Insulation • Black PVC Jacket |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|--------------------------------------------|-------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                     | 8241B | NEC: | U-1000 | U-304.8 | 37.0 | 17.3 | 23 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .4   | 1.3  |
| Style 1354                                 |       | CM   | 1000   | 304.8   | 38.0 | 16.8 | (solid)  |      |      | 95% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
| (30V 80°C)                                 |       | CEC: |        |         |      |      | .023"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|                                            |       | CM   |        |         |      |      | BC       |      |      | 2.9Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|                                            |       |      |        |         |      |      | 20.4Ω/M' |      |      | 9.5Ω/km    |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|                                            |       |      |        |         |      |      | 66.9Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|                                            |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |
|                                            |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 11.1 | 36.4 |
|                                            |       |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |

## 22 AWG Stranded (7x30) .030" Bare Copper • 95% Bare Copper Braid Shield

| Foam Polyethylene Insulation • PVC Jacket (Available in Matte Black, Red, Blue, Green, Yellow, White or Gray) |       |  |      |       |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------|-------|--|------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| High-Flex                                                                                                     | 8241F |  | 1000 | 304.8 | 34.0 | 15.5 | 22 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 78% | 17.3 | 56.8 | 1    | .3   | 1.0  |
| 60°C                                                                                                          |       |  |      |       |      |      | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
|                                                                                                               |       |  |      |       |      |      | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|                                                                                                               |       |  |      |       |      |      | BC       |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                                                                               |       |  |      |       |      |      | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                                                                               |       |  |      |       |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.7 |
|                                                                                                               |       |  |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|                                                                                                               |       |  |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                                                                               |       |  |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |

## 23 AWG Solid .023" Bare Copper-covered Steel Conductor • 97% Bare Copper Braid Shield

| Plenum • FEP Insulation • Black FEP Jacket |       |         |       |       |      |      |           |      |      |            |      |      |    |       |      |      |      |      |      |
|--------------------------------------------|-------|---------|-------|-------|------|------|-----------|------|------|------------|------|------|----|-------|------|------|------|------|------|
| 200°C                                      | 88241 | NEC:    | 500†  | 152.4 | 20.5 | 9.3  | 23 AWG    | .132 | 3.35 | BC Braid   | .190 | 4.83 | 75 | 69.5% | 19.5 | 64.0 | 1    | .5   | 1.6  |
|                                            |       | CMP     | 1000† | 304.8 | 40.0 | 18.2 | (solid)   |      |      | 97% Shield |      |      |    |       |      |      | 10   | 1.0  | 3.3  |
|                                            |       | CEC:    |       |       |      |      | .023"     |      |      | Coverage   |      |      |    |       |      |      | 50   | 2.3  | 7.5  |
|                                            |       | CMP FT6 |       |       |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |       |      |      | 100  | 3.3  | 10.8 |
|                                            |       |         |       |       |      |      | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |       |      |      | 200  | 5.2  | 17.1 |
|                                            |       |         |       |       |      |      | 160.7Ω/km |      |      |            |      |      |    |       |      |      | 400  | 8.4  | 27.6 |
|                                            |       |         |       |       |      |      |           |      |      |            |      |      |    |       |      |      | 700  | 11.6 | 38.0 |
|                                            |       |         |       |       |      |      |           |      |      |            |      |      |    |       |      |      | 900  | 13.8 | 45.3 |
|                                            |       |         |       |       |      |      |           |      |      |            |      |      |    |       |      |      | 1000 | 14.8 | 48.5 |

Suitable for Outdoor and Direct Burial applications.

| Plenum • FEP Insulation • Natural Flamarrest® Jacket |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      |      |      |      |
|------------------------------------------------------|-------|---------|---------|---------|------|------|-----------|------|------|------------|------|------|----|-------|------|------|------|------|------|
| 75°C                                                 | 82241 | NEC:    | U-500†  | U-152.4 | 16.0 | 7.3  | 23 AWG    | .132 | 3.35 | BC Braid   | .190 | 4.83 | 75 | 69.5% | 19.5 | 64.0 | 1    | .5   | 1.6  |
|                                                      |       | CMP     | U-1000† | U-304.8 | 32.0 | 14.5 | (solid)   |      |      | 97% Shield |      |      |    |       |      |      | 10   | 1.0  | 3.3  |
|                                                      |       | CEC:    | 1000†   | 304.8   | 32.0 | 14.5 | .023"     |      |      | Coverage   |      |      |    |       |      |      | 50   | 2.3  | 7.5  |
|                                                      |       | CMP FT6 |         |         |      |      | BCCS      |      |      | 2.6Ω/M'    |      |      |    |       |      |      | 100  | 3.3  | 10.8 |
|                                                      |       |         |         |         |      |      | 49.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |       |      |      | 200  | 5.2  | 17.1 |
|                                                      |       |         |         |         |      |      | 160.7Ω/km |      |      |            |      |      |    |       |      |      | 400  | 8.4  | 27.6 |
|                                                      |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      | 700  | 11.6 | 38.0 |
|                                                      |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      | 900  | 13.8 | 45.3 |
|                                                      |       |         |         |         |      |      |           |      |      |            |      |      |    |       |      |      | 1000 | 14.8 | 48.5 |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.



# Standard Analog Video Cable

75 Ohm Coax  
RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|-----------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                             | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

## 22 AWG Solid Bare Copper-covered Steel • Bare Copper Braid Shield

| Polyethylene Insulation • Black PVC Jacket                                        |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      |                                      |      |      |
|-----------------------------------------------------------------------------------|------|------|--------|---------|-------|------|----------|------|------|------------|------|------|----|-----|------|------|--------------------------------------|------|------|
| UL AWM                                                                            | 8263 | NEC: | U-500  | U-152.4 | 19.5  | 8.9  | 23 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1                                    | .6   | 2.0  |
| Style 1354                                                                        |      | CMX: | U-1000 | U-304.8 | 39.0  | 17.7 | (solid)  |      |      | 95% Shield |      |      |    |     |      |      | 10                                   | 1.1  | 3.6  |
| (30V 60°C)                                                                        |      | CEC: | 1000   | 304.8   | 38.0  | 17.3 | .023"    |      |      | Coverage   |      |      |    |     |      |      | 50                                   | 2.4  | 7.9  |
|                                                                                   |      | CMX: |        |         |       |      | BCCS     |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100                                  | 3.4  | 11.2 |
|                                                                                   |      |      |        |         |       |      | 49.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200                                  | 4.9  | 16.1 |
|  |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 400                                  | 7.0  | 23.0 |
|                                                                                   |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 700                                  | 9.7  | 31.8 |
|                                                                                   |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 900                                  | 11.1 | 36.4 |
|                                                                                   |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 1000                                 | 12.0 | 39.4 |
| Non-contaminating Black PVC Jacket.                                               |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      |                                      |      |      |
| UL AWM                                                                            | 9244 | NEC: | U-500  | U-152.4 | 18.0  | 8.2  | 22 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 19.4 | 63.6 | 1                                    | .6   | 2.0  |
| Style 1354                                                                        |      | CMX: | U-1000 | U-304.8 | 36.0  | 16.4 | (solid)  |      |      | 85% Shield |      |      |    |     |      |      | 10                                   | 1.1  | 3.6  |
| (30V 80°C)                                                                        |      | CEC: | 1000   | 304.8   | 36.0  | 16.4 | .025"    |      |      | Coverage   |      |      |    |     |      |      | 50                                   | 2.4  | 7.9  |
|                                                                                   |      | CMX: | 3280   | 1000.0  | 118.1 | 53.8 | BCCS     |      |      | 4.5Ω/M'    |      |      |    |     |      |      | 100                                  | 3.4  | 11.2 |
|                                                                                   |      |      |        |         |       |      | 50.0Ω/M' |      |      | 14.8Ω/km   |      |      |    |     |      |      | 200                                  | 4.9  | 16.1 |
|  |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 400                                  | 7.0  | 23.0 |
|                                                                                   |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 700                                  | 9.7  | 31.8 |
|                                                                                   |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 900                                  | 11.1 | 36.4 |
|                                                                                   |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 1000                                 | 12.0 | 39.4 |
|                                                                                   |      |      |        |         |       |      |          |      |      |            |      |      |    |     |      |      | 100% Sweep tested. 5 MHz to 450 MHz. |      |      |

| Foam Polyethylene Insulation • Black PVC Jacket |                                                                                   |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      |    |      |     |      |
|-------------------------------------------------|-----------------------------------------------------------------------------------|------|--------|---------|------|------|-----------|------|------|------------|------|------|----|-----|------|------|----|------|-----|------|
| 75°C                                            |  | 8221 | U-500  | U-152.4 | 18.5 | 8.4  | 22 AWG    | .146 | 3.71 | BC Braid   | .242 | 6.15 | 80 | 78% | 16.3 | 53.5 | 1  | .4   | 1.4 |      |
|                                                 |                                                                                   |      | 500    | 152.4   | 18.5 | 8.4  | (solid)   |      |      | 95% Shield |      |      |    |     |      |      | 10 | .9   | 3.0 |      |
|                                                 |                                                                                   |      | U-1000 | U-304.8 | 36.0 | 16.4 | .025"     |      |      | Coverage   |      |      |    |     |      |      |    | 50   | 2.0 | 6.6  |
|                                                 |                                                                                   |      | 1000   | 304.8   | 36.0 | 16.4 | BCCS      |      |      | 2.6Ω/M'    |      |      |    |     |      |      |    | 100  | 2.9 | 9.5  |
|                                                 |                                                                                   |      |        |         |      |      | 50.0Ω/M'  |      |      | 8.5Ω/km    |      |      |    |     |      |      |    | 200  | 4.1 | 13.4 |
|                                                 |                                                                                   |      |        |         |      |      | 164.0Ω/km |      |      |            |      |      |    |     |      |      |    | 400  | 5.9 | 19.4 |
|                                                 |                                                                                   |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      |    | 700  | 7.8 | 25.6 |
|                                                 |                                                                                   |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      |    | 900  | 8.8 | 28.9 |
|                                                 |                                                                                   |      |        |         |      |      |           |      |      |            |      |      |    |     |      |      |    | 1000 | 9.9 | 32.5 |

## 22 AWG Stranded (7x30) .030" Bare Copper • 95% Bare Copper Braid Shield

| Foam Polyethylene Insulation • Black PVC Jacket                                     |      |      |        |         |      |          |          |      |      |            |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------------|------|------|--------|---------|------|----------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                                                              | 9659 | NEC: | U-500  | U-152.4 | 18.0 | 8.2      | 22 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
| Style 1354                                                                          |      | CMX  | U-1000 | U-304.8 | 36.0 | 16.4     | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
| (30V 60°C)                                                                          |      | CEC: | 1000   | 304.8   | 36.0 | 16.4     | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
| VW-1                                                                                |      | CMX  |        |         |      |          | BC       |      |      | 2.6Ω/M     |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                                                     |      |      |        |         |      |          | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|  |      |      |        |         |      | 49.2Ω/km |          |      |      |            |      |      |    |     |      | 400  | 6.6  | 21.6 |      |
|                                                                                     |      |      |        |         |      |          |          |      |      |            |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|                                                                                     |      |      |        |         |      |          |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                                                     |      |      |        |         |      |          |          |      |      |            |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |
| Non-contaminating PVC Jacket. For CCTV applications.                                |      |      |        |         |      |          |          |      |      |            |      |      |    |     |      |      |      |      |      |

|                                                                                     |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM                                                                              | 9259 | NEC: | 100    | 30.5    | 4.6  | 2.1  | 22 AWG   | .146 | 3.71 | BC Braid   | .241 | 6.12 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
| Style 1354                                                                          |      | CM   | U-500  | U-152.4 | 18.5 | 8.4  | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
| (30V 80°C)                                                                          |      | CEC: | 500    | 152.4   | 20.5 | 9.3  | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|  |      | CM   | U-1000 | U-304.8 | 36.0 | 16.4 | BC       |      |      | 2.6Ω/M     |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                                                     |      |      | 1000   | 304.8   | 36.0 | 16.4 | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                                                     |      |      |        |         |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.7 |
|                                                                                     |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 8.9  | 29.2 |
|                                                                                     |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                                                     |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 10.9 | 35.8 |
| For CCTV applications.                                                              |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |

| Plenum • Foam FEP Insulation • Black FEP Jacket      |                                                                                     |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| 200°C                                                |  | NEC:    | 100   | 30.5  | 5.1  | 2.3  | 22 AWG   | .135 | 3.43 | BC Braid   | .193 | 4.90 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
|                                                      |                                                                                     | CMP     | 500†  | 152.4 | 18.0 | 8.2  | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
|                                                      |                                                                                     | CEC:    | 1000† | 304.8 | 34.0 | 15.5 | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|                                                      |                                                                                     | CMP FT6 |       |       |      |      | BC       |      |      | 2.6Ω/M     |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                      |                                                                                     |         |       |       |      |      | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                      |                                                                                     |         |       |       |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                      |                                                                                     |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.0  | 29.5 |
|                                                      |                                                                                     |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                      |                                                                                     |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 11.0 | 36.1 |
| Suitable for Outdoor and Direct Burial applications. |                                                                                     |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket |                                                                                                     |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------|---------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                      | <b>82259</b><br> | NEC:    | U-1000† | U-304.8 | 31.0 | 14.1 | 22 AWG   | .135 | 3.43 | BC Braid   | .193 | 4.90 | 75 | 78% | 17.3 | 56.7 | 1    | .3   | 1.0  |
|                                                           |                                                                                                     | CMP     | 1000†   | 304.8   | 33.0 | 15.0 | (7x30)   |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 3.0  |
|                                                           |                                                                                                     | CEC:    |         |         |      |      | .030"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.1  | 6.9  |
|                                                           |                                                                                                     | CMP FT6 |         |         |      |      | BC       |      |      | 2.6Ω/M'    |      |      |    |     |      |      | 100  | 3.0  | 9.8  |
|                                                           |                                                                                                     |         |         |         |      |      | 15.0Ω/M' |      |      | 8.5Ω/km    |      |      |    |     |      |      | 200  | 4.5  | 14.8 |
|                                                           |                                                                                                     |         |         |         |      |      | 49.2Ω/km |      |      |            |      |      |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                           |                                                                                                     |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.0  | 29.5 |
|                                                           |                                                                                                     |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 10.1 | 33.1 |
|                                                           |                                                                                                     |         |         |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 11.0 | 36.1 |

75 Ohm Coax  
RG-59/U Type



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INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**



**Standard Analog Video Cable**

75 Ohm Coax

RG-6/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**21 AWG Solid .028" Bare Copper-covered Steel • Two Bare Copper Braids (97% Shield Coverage)**

| Polyethylene Insulation • Black Polyethylene Jacket |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      |      |     |      |
|-----------------------------------------------------|--------------------|------|------|-------|------|------|----------------------------|------|------|------------------------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
|                                                     | MATV Cable<br>80°C | 8215 | 1000 | 304.8 | 74.0 | 33.6 | 21 AWG<br>(solid)<br>.028" | .185 | 4.70 | (2) BC<br>Braids<br>97% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .332 | 8.43 | 75 | 66% | 20.5 | 67.2 | 1    | 4   | 1.3  |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 10   | .8  | 2.6  |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 50   | 1.9 | 6.2  |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 100  | 2.7 | 8.9  |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 200  | 4.1 | 13.4 |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 400  | 5.9 | 19.4 |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 700  | 8.1 | 26.6 |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 900  | 9.4 | 30.8 |
|                                                     |                    |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 1000 | 9.8 | 32.1 |

**18 AWG Solid .037" Bare Copper • Two Bare Copper Braids (98% Shield Coverage)**

| Foam Polyethylene Insulation • Black PVC Jacket |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      |      |     |      |
|-------------------------------------------------|------|------|------|-------|------|------|----------------------------|------|------|------------------------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
|                                                 | 80°C | 9290 | 1000 | 304.8 | 60.0 | 27.3 | 18 AWG<br>(solid)<br>.037" | .180 | 4.57 | (2) BC<br>Braids<br>98% Shield<br>Coverage<br>2.0Ω/M'<br>6.6Ω/km | .288 | 7.32 | 75 | 78% | 17.3 | 56.7 | 1    | 2   | .7   |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 10   | .7  | 2.3  |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 50   | 1.7 | 5.6  |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 100  | 2.5 | 8.2  |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 200  | 3.6 | 11.8 |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 400  | 5.3 | 17.4 |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 700  | 7.2 | 23.6 |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 900  | 8.3 | 27.2 |
|                                                 |      |      |      |       |      |      |                            |      |      |                                                                  |      |      |    |     |      |      | 1000 | 8.8 | 28.9 |

**18 AWG Solid .040" Bare Copper • Duofoil® + Tinned Copper Braid Shield**

| Gas-injected Foam HDPE Insulation • Black PVC Jacket |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      |      |     |      |
|------------------------------------------------------|------------------------------------|------|------|-------|------|-----|----------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
|                                                      | UL AWM<br>Style 1354<br>(30V 80°C) | 9248 | 1000 | 304.8 | 17.0 | 7.7 | 18 AWG<br>(solid)<br>.040" | .180 | 4.57 | Duofoil<br>+ 60% TC<br>Braid<br>5.6Ω/M'<br>18.4Ω/km | .270 | 6.86 | 75 | 82% | 16.2 | 53.1 | 1    | .3  | 1.0  |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 10   | .7  | 2.3  |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 50   | 1.5 | 4.9  |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 100  | 2.0 | 6.6  |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 200  | 2.8 | 9.2  |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 400  | 4.0 | 13.1 |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 700  | 5.3 | 17.4 |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 900  | 6.1 | 20.0 |
|                                                      |                                    |      |      |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 1000 | 6.5 | 21.3 |

| Plenum • Foam FEP Insulation • Black FEP Jacket |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      |      |     |      |
|-------------------------------------------------|-------|-------|-------|-------|------|-----|----------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
|                                                 | 200°C | 89248 | 1000† | 304.8 | 18.0 | 8.2 | 18 AWG<br>(solid)<br>.040" | .170 | 4.32 | Duofoil<br>+ 65% TC<br>Braid<br>5.1Ω/M'<br>16.7Ω/km | .222 | 5.64 | 75 | 82% | 16.2 | 53.1 | 1    | .3  | 1.0  |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 10   | .7  | 2.3  |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 50   | 1.5 | 4.9  |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 100  | 2.1 | 6.9  |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 200  | 3.1 | 10.2 |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 400  | 4.5 | 14.8 |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 700  | 6.0 | 19.7 |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 900  | 6.9 | 22.6 |
|                                                 |       |       |       |       |      |     |                            |      |      |                                                     |      |      |    |     |      |      | 1000 | 7.3 | 23.9 |

Suitable for Outdoor and Direct Burial applications.

| Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      |      |     |      |
|-----------------------------------------------------------|------|-------|-------|-------|------|------|----------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
|                                                           | 75°C | 82248 | 1000† | 304.8 | 32.0 | 14.5 | 18 AWG<br>(solid)<br>.040" | .170 | 4.32 | Duofoil<br>+ 65% TC<br>Braid<br>5.1Ω/M'<br>16.7Ω/km | .222 | 5.64 | 75 | 82% | 16.2 | 53.1 | 1    | .3  | 1.0  |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 10   | .7  | 2.3  |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 50   | 1.6 | 5.2  |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 100  | 2.2 | 7.2  |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 200  | 3.0 | 9.8  |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 400  | 4.6 | 15.1 |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 700  | 6.6 | 21.6 |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 900  | 7.7 | 25.3 |
|                                                           |      |       |       |       |      |      |                            |      |      |                                                     |      |      |    |     |      |      | 1000 | 8.2 | 26.9 |

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.



# Standard Analog Video Cable

75 Ohm Coax  
RG-11/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

## 18 AWG Stranded (7x26) .048" Tinned Copper • 97% Bare Copper Braid Shield

| Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket             |      |      |      |       |       |      |          |      |      |            |      |       |    |     |      |      |     |      |      |
|----------------------------------------------------------------------------------|------|------|------|-------|-------|------|----------|------|------|------------|------|-------|----|-----|------|------|-----|------|------|
| 80°C                                                                             | 8238 | NEC: | 500  | 152.4 | 59.0  | 26.8 | 18 AWG   | .285 | 7.24 | BC Braid   | .405 | 10.29 | 75 | 66% | 20.5 | 67.2 | 1   | .2   | .6   |
|  |      | CM   | 1000 | 304.8 | 117.0 | 53.2 | (7x26)   |      |      | 97% Shield |      |       |    |     |      |      | 10  | .7   | 2.2  |
|                                                                                  |      | CEC: |      |       |       |      | .048"    |      |      | Coverage   |      |       |    |     |      |      | 50  | 1.3  | 4.3  |
|                                                                                  |      |      |      |       |       |      | TC       |      |      | 1.2Ω/M'    |      |       |    |     |      |      | 100 | 2.0  | 6.6  |
|                                                                                  |      | CM   |      |       |       |      | 6.1Ω/M'  |      |      | 3.9Ω/km    |      |       |    |     |      |      | 200 | 2.9  | 9.5  |
|                                                                                  |      |      |      |       |       |      | 20.0Ω/km |      |      |            |      |       |    |     |      |      | 400 | 4.2  | 13.8 |
|                                                                                  |      |      |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 700 | 5.8  | 19.0 |
|                                                                                  |      |      |      |       |       |      |          |      |      |            |      |       |    |     |      |      | 900 | 6.8  | 22.3 |
|                                                                                  |      |      |      |       |       |      |          |      |      |            |      |       |    |     |      | 1000 | 7.1 | 23.3 |      |



| Polyethylene Insulation • Non-contaminating Black PVC Jacket |      |      |       |       |      |        |      |      |            |          |       |    |     |      |      |    |      |     |      |
|--------------------------------------------------------------|------|------|-------|-------|------|--------|------|------|------------|----------|-------|----|-----|------|------|----|------|-----|------|
| 60°C                                                         | 8261 | 500  | 152.4 | 52.5  | 23.9 | 18 AWG | .285 | 7.24 | BC Braid   | .405     | 10.29 | 75 | 66% | 20.5 | 67.2 | 1  | .2   | .6  |      |
| VW-1                                                         |      | 1000 | 304.8 | 104.0 | 47.3 | (7x26) |      |      | 97% Shield |          |       |    |     |      |      | 10 | .7   | 2.2 |      |
|                                                              |      |      |       |       |      |        |      |      | .048"      | Coverage |       |    |     |      |      |    | 50   | 1.3 | 4.3  |
|                                                              |      |      |       |       |      |        |      |      | TC         | 1.2Ω/M'  |       |    |     |      |      |    | 100  | 2.0 | 6.6  |
|                                                              |      |      |       |       |      |        |      |      | 6.1Ω/M'    | 3.9Ω/km  |       |    |     |      |      |    | 200  | 2.9 | 9.5  |
|                                                              |      |      |       |       |      |        |      |      | 20.0Ω/km   |          |       |    |     |      |      |    | 400  | 4.2 | 13.8 |
|                                                              |      |      |       |       |      |        |      |      |            |          |       |    |     |      |      |    | 700  | 5.8 | 19.0 |
|                                                              |      |      |       |       |      |        |      |      |            |          |       |    |     |      |      |    | 900  | 6.8 | 22.3 |
|                                                              |      |      |       |       |      |        |      |      |            |          |       |    |     |      |      |    | 1000 | 7.1 | 23.3 |



## 14 AWG Solid .064" Bare Copper • Duofoil® + Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black PVC Jacket                                   |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      |      |     |      |  |
|----------------------------------------------------------------------------------------|------|------|-------|------|------|--------------------------------------------------------|------|------|----------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|--|
| 80°C                                                                                   | 9292 | 1000 | 304.8 | 81.0 | 36.8 | 14 AWG<br>(solid)<br>.064"<br>BC<br>2.6Ω/M'<br>8.5Ω/km | .280 | 7.11 | Duofoil<br>+ 60% TC<br>Braid<br>3.0Ω/M'<br>9.8Ω/km | .405 | 10.29 | 75 | 84% | 16.1 | 52.8 | 1    | .2  | .6   |  |
|        |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 10   | .5  | 1.6  |  |
|                                                                                        |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 50   | .9  | 3.0  |  |
|                                                                                        |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 100  | 1.3 | 4.3  |  |
|                                                                                        |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 200  | 1.6 | 5.3  |  |
|                                                                                        |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 400  | 2.3 | 7.6  |  |
| For Plenum versions of 9292,<br>see 89292.<br><br>100% Sweep tested. 5 MHz to 450 MHz. |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 700  | 3.3 | 10.8 |  |
|                                                                                        |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 900  | 4.0 | 13.1 |  |
|                                                                                        |      |      |       |      |      |                                                        |      |      |                                                    |      |       |    |     |      |      | 1000 | 4.3 | 14.1 |  |

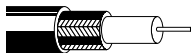


| Plenum • Foam FEP Insulation • Black FEP Jacket                                    |       |         |       |       |      |      |         |      |      |          |                                      |      |    |     |      |      |      |     |      |
|------------------------------------------------------------------------------------|-------|---------|-------|-------|------|------|---------|------|------|----------|--------------------------------------|------|----|-----|------|------|------|-----|------|
| 200°C                                                                              | 89292 | NEC:    | 500†  | 152.4 | 39.5 | 18.0 | 14 AWG  | .274 | 6.96 | Duofoil  | .346                                 | 8.79 | 75 | 83% | 16.2 | 53.1 | 1    | .2  | .5   |
|  |       | CMP     | 1000† | 304.8 | 77.0 | 35.0 | (solid) |      |      | + 63% TC |                                      |      |    |     |      |      | 10   | .4  | 1.3  |
|                                                                                    |       | CATVP   |       |       |      |      | .064"   |      |      | Braid    |                                      |      |    |     |      |      | 50   | 1.0 | 3.3  |
|                                                                                    |       | CEC:    |       |       |      |      | BC      |      |      | 3.0Ω/M'  |                                      |      |    |     |      |      | 100  | 1.5 | 4.9  |
|                                                                                    |       | CMP FT6 |       |       |      |      | 2.5Ω/M' |      |      | 9.8Ω/km  | 100% Sweep tested. 5 MHz to 450 MHz. |      |    |     |      |      | 200  | 2.2 | 7.2  |
|                                                                                    |       |         |       |       |      |      | 8.2Ω/km |      |      |          |                                      |      |    |     |      |      | 400  | 3.3 | 10.8 |
|                                                                                    |       |         |       |       |      |      |         |      |      |          |                                      |      |    |     |      |      | 700  | 4.5 | 14.8 |
|                                                                                    |       |         |       |       |      |      |         |      |      |          |                                      |      |    |     |      |      | 900  | 5.2 | 17.1 |
|                                                                                    |       |         |       |       |      |      |         |      |      |          |                                      |      |    |     |      |      | 1000 | 5.5 | 18.0 |



## 14 AWG Solid .064" Bare Copper • 97% Bare Copper Braid Shield

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket                      |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|------------------------------------------------------------------------------------|------|------|-------|-------|------|---------|------|------|------------|------|-------|----|-----|------|------|------|-----|------|------|
| 80°C                                                                               | 8213 | 500  | 152.4 | 44.0  | 20.0 | 14 AWG  | .285 | 7.24 | BC Braid   | .405 | 10.29 | 75 | 84% | 16.1 | 52.8 | 1    | .2  | .6   |      |
|  |      | 1000 | 304.8 | 87.0  | 39.5 | (solid) |      |      | 97% Shield |      |       |    |     |      |      | 10   | .4  | 1.1  |      |
|                                                                                    |      | 2000 | 609.6 | 172.0 | 78.2 | .064"   |      |      | Coverage   |      |       |    |     |      |      | 50   | .9  | 3.0  |      |
|                                                                                    |      |      |       |       |      | BC      |      |      | 1.1Ω/M'    |      |       |    |     |      |      | 100  | 1.3 | 4.3  |      |
|                                                                                    |      |      |       |       |      | 2.6Ω/M' |      |      | 3.6Ω/km    |      |       |    |     |      |      | 200  | 1.9 | 6.2  |      |
|                                                                                    |      |      |       |       |      | 8.5Ω/km |      |      |            |      |       |    |     |      |      | 400  | 2.9 | 9.5  |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      | 700 | 4.1  | 13.5 |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 900  | 4.8 | 15.7 |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      | 1000 | 5.2 | 17.1 |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
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|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
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|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     |      |      |      |     |      |      |
|                                                                                    |      |      |       |       |      |         |      |      |            |      |       |    |     | </   |      |      |     |      |      |



BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

# Precision Video Cable for Analog and Digital

## Overview



### Analog Video

Belden® precision video cables are used in critical analog and digital video circuits and high quality applications such as live broadcast in network studios and pre- or post-production facilities. They should be used where superior signal integrity is required.

Precision video cables usually have solid center conductors and dual shields. The dielectrics can either be foamed or solid. Tighter impedance and attenuation tolerances, superior Return Loss (RL) specifications, and improved shielding give precision video cables their no-compromise performance.

The frequency response loss curves of the solid dielectric cables, such as 8281, are different from those with foam dielectric, like 1505A. Therefore, different equalization equipment is necessary and commercially available. Avoid mixing 8281 and 1505A for this reason.

### Digital Video

Precision video cables are also recommended for the latest digital video applications. Since its inception in the early '80s, digital broadcast is quickly becoming the preferred video format. The advantages of the digital format are many. Digital is very stable, minimizing equipment adjustments. Copies or reproductions retain the quality of the original. Signal degradation is virtually eliminated, and noise immunity is greatly improved. Digital video is transmitted over a cable in either a Parallel or Serial format.

### Parallel Digital Video (D<sub>1</sub>, D<sub>2</sub> & D<sub>3</sub>)

The Parallel format transmits each bit of an 8 or 10 bit digital word simultaneously or parallel down a separate signal path at a frequency of 27 Mb/s. This type of transmission requires the use of a 100 to 120 ohm 12-1/2 pair data cable (Belden part nos. 8142 or 8112 page 12.55). These cables are limited to a transmission distance of less than 30 meters.

### Serial Digital Video (SDI)

The Society of Motion Picture and Television Engineers (SMPTE) has developed two different standards for serial digital transmissions (SDI). A third format that transmits at 540 Mb/s is under development. There is also a European standards body known as ITU (formerly CCIR) that developed the specifications for Europe known as PAL. Each of these specifications differs in frequency and transmission technology, i.e., composite or component.

- **SMPTE 259M** — Covers digital video transmissions of composite NTSC 143 Mb/s (Level A) and PAL 177 Mb/s (Level B). It also covers 525/625 component transmissions of 270 Mb/s (Level C) and 360 Mb/s (Level D).
- **SMPTE 292M** — Covers the newest format for HDTV transmissions at 1.458 Gb/s.
- **SMPTE 344M** — Covers component widescreen transmissions of 540 Mb/s.
- **ITU-R BT.601** — International standard covers component PAL transmissions of 177 Mb/s.

# Precision Video Cable for Analog and Digital

## Sub-Miniature RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 25 AWG Stranded (19x37) .021" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     |      |      |      |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------|------|-------|------|-----|----------------------------------------------------------|------|------|-----------------------------------------------------|------|------|----|-----|------|------|---|-----|------|------|------|
| SDI/HDTV<br>Digital Video<br>75°C                                        | <b>1865A</b><br> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1000 | 304.8 | 16.0 | 7.3 | 25 AWG<br>(19x37)<br>.021"<br>BC<br>27.4Ω/M'<br>89.9Ω/km | .094 | 2.39 | Duofoil<br>+ 95%<br>TC Braid<br>5.4Ω/M'<br>17.7Ω/km | .150 | 3.81 | 75 | 82% | 16.5 | 54.1 | 1 | .5  | 1.5  |      |      |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   | 3.6 | 1.0  | 3.1  |      |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 10   | 1.6  | 5.2  |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 71.5 | 3.7  | 12.1 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 135  | 5.0  | 16.4 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 270  | 7.1  | 23.3 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 360  | 8.2  | 26.9 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 540  | 10.1 | 33.1 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 720  | 11.8 | 38.7 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 750  | 12.0 | 39.4 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 1000 | 13.9 | 45.6 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 1500 | 17.0 | 55.8 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 2250 | 20.8 | 68.2 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     | 3000 | 24.0 | 78.7 |
|                                                                          |                                                                                                  |                                |      |       |      |     |                                                          |      |      |                                                     |      |      |    |     |      |      |   |     |      |      |      |

100% Sweep tested. 5 MHz to 3 GHz.

### 23 AWG Solid .023" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     |      |      |      |
|--------------------------------------------------------------------------|--------------|---------|---------|---------|------|-----|----------|------|------|----------|------|------|----|-----|------|------|-----|------|------|------|
| SDI/HDTV                                                                 | <b>1855A</b> | NEC:    | 500▲    | 152.4   | 9.0  | 4.1 | 23 AWG   | .102 | 2.59 | Duofoil  | .159 | 4.03 | 75 | 83% | 16.3 | 53.5 | 1   | .4   | 1.3  |      |
| Digital Video                                                            |              | CMR     | 1000    | 304.8   | 18.0 | 8.2 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6 | .8   | 2.6  |      |
| 75°C                                                                     |              | CEC:    | U-1000* | U-304.8 | 18.0 | 8.2 | .023"    |      |      | TC Braid |      |      |    |     |      |      |     | 10   | 1.2  | 3.9  |
|                                                                          |              | CMG FT4 |         |         |      |     | BC       |      |      | 7.6Ω/M'  |      |      |    |     |      |      |     | 71.5 | 3.1  | 10.0 |
|                                                                          |              |         |         |         |      |     | 20.1Ω/M' |      |      | 24.9Ω/km |      |      |    |     |      |      |     | 135  | 3.8  | 12.5 |
|                                                                          |              |         |         |         |      |     | 65.9Ω/km |      |      |          |      |      |    |     |      |      |     | 270  | 5.4  | 17.7 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 360  | 6.2  | 20.3 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 540  | 7.7  | 25.3 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 720  | 9.5  | 31.1 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 750  | 9.6  | 31.5 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 1000 | 10.5 | 34.4 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 1500 | 13.0 | 42.6 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 2250 | 16.0 | 52.5 |
|                                                                          |              |         |         |         |      |     |          |      |      |          |      |      |    |     |      |      |     | 3000 | 18.5 | 60.7 |



▲500 ft. put-up available in Black only.

•U-1000 ft. put-up available in Gray only.

Also available in multiples, bundled.  
See 7787A through 7792A.

100% Sweep tested. 5 MHz to 3 GHz.

Also available in multiples, bundled.  
See 7787A through 7792A.

100% Sweep tested. 5 MHz to 3 GHz.

<sup>▲</sup>500 ft. put-up available in Black only.

<sup>♦</sup>U-1000 ft. put-up available in Gray only.

BC = Bare Copper • DCR = DC Resistance • HDPE = Foam High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

\*Available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.



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**1-800-527-0010**

# Precision Video Cable for Analog and Digital

## RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 23 AWG Stranded (7x32) .023" Bare Compacted Copper\* • 95% Tinned Copper Braid Shield

| Polyethylene Insulation • Black Polyethylene Jacket |      |                                                                                                                                                                |      |       |      |      |                  |      |      |                       |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|------|------------------|------|------|-----------------------|------|------|----|-----|------|------|------|------|------|
| 80°C                                                | 8279 |  | 500  | 152.4 | 14.5 | 6.6  | 23 AWG<br>(7x32) | .146 | 3.71 | TC<br>+ 95%<br>Shield | .220 | 5.59 | 75 | 66% | 21.0 | 68.9 | 1    | .4   | 1.1  |
|                                                     |      |                                                                                                                                                                | 1000 | 304.8 | 28.0 | 12.7 | .023"            |      |      |                       |      |      |    |     |      |      | 3.6  | .6   | 2.0  |
|                                                     |      |                                                                                                                                                                |      |       |      |      | BCC              |      |      | Coverage              |      |      |    |     |      |      | 10.0 | 1.2  | 3.9  |
|                                                     |      |                                                                                                                                                                |      |       |      |      | 19.1Ω/M'         |      |      | 4.5Ω/M'               |      |      |    |     |      |      | 71.5 | 3.3  | 10.8 |
|                                                     |      |                                                                                                                                                                |      |       |      |      | 62.6Ω/km         |      |      | 14.8Ω/km              |      |      |    |     |      |      | 135  | 4.7  | 15.4 |
|                                                     |      |                                                                                                                                                                |      |       |      |      |                  |      |      |                       |      |      |    |     |      |      | 270  | 6.8  | 22.3 |
|                                                     |      |                                                                                                                                                                |      |       |      |      |                  |      |      |                       |      |      |    |     |      |      | 360  | 8.0  | 26.2 |
|                                                     |      |                                                                                                                                                                |      |       |      |      |                  |      |      |                       |      |      |    |     |      |      | 540  | 9.9  | 32.5 |
|                                                     |      |                                                                                                                                                                |      |       |      |      |                  |      |      |                       |      |      |    |     |      |      | 720  | 11.6 | 38.0 |
|                                                     |      |                                                                                                                                                                |      |       |      |      |                  |      |      |                       |      |      |    |     |      |      | 750  | 11.9 | 39.0 |
|                                                     |      |                                                                                                                                                                |      |       |      |      |                  |      |      |                       |      |      |    |     |      |      | 1000 | 13.8 | 45.3 |

### 23 AWG Solid .022" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Polyethylene Insulation • Black Polyethylene Jacket |      |                                                                                                                                                                   |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      |      |      |      |
|-----------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|------|------|-------------------|------|------|------------------------------|------|------|----|-----|------|------|------|------|------|
| 80°C                                                | 9209 |  | U-500  | U-152.4 | 15.0 | 6.8  | 23 AWG<br>(solid) | .146 | 3.71 | Duofoil<br>+ 95%<br>TC Braid | .220 | 5.59 | 75 | 66% | 21.0 | 68.9 | 1    | .4   | 1.2  |
|                                                     |      |                                                                                                                                                                   | U-1000 | U-304.8 | 29.0 | 13.2 | .022"             |      |      |                              |      |      |    |     |      |      | 3.6  | .5   | 1.8  |
|                                                     |      |                                                                                                                                                                   |        |         |      |      | BC                |      |      | 4.5Ω/M'                      |      |      |    |     |      |      | 10.0 | 1.2  | 3.8  |
|                                                     |      |                                                                                                                                                                   |        |         |      |      | 20.4Ω/M'          |      |      | 14.8Ω/km                     |      |      |    |     |      |      | 71.5 | 2.9  | 9.5  |
|                                                     |      |                                                                                                                                                                   |        |         |      |      | 66.9Ω/km          |      |      |                              |      |      |    |     |      |      | 135  | 4.0  | 13.0 |
|                                                     |      |                                                                                                                                                                   |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 270  | 5.6  | 18.4 |
|                                                     |      |                                                                                                                                                                   |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 360  | 6.6  | 21.5 |
|                                                     |      |                                                                                                                                                                   |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 540  | 8.3  | 27.2 |
|                                                     |      |                                                                                                                                                                   |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 720  | 9.7  | 31.7 |
|                                                     |      |                                                                                                                                                                   |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 750  | 9.9  | 32.5 |
|                                                     |      |                                                                                                                                                                   |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 1000 | 11.6 | 38.0 |

| Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket |       |                                                                                                                                                                                                                |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      |      |      |      |
|----------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|------|------|-------------------|------|------|------------------------------|------|------|----|-----|------|------|------|------|------|
| UL AWM<br>Style 1354<br>(30V 75°C)                                   | 9209A |  | U-1000 | U-304.8 | 35.0 | 15.9 | 23 AWG<br>(solid) | .146 | 3.71 | Duofoil<br>+ 95%<br>TC Braid | .220 | 5.59 | 75 | 66% | 20.5 | 67.2 | 1    | .4   | 1.2  |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      | .022"             |      |      |                              |      |      |    |     |      |      | 3.6  | .5   | 1.8  |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      | BC                |      |      | 4.5Ω/M'                      |      |      |    |     |      |      | 10.0 | 1.2  | 3.8  |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      | 20.4Ω/M'          |      |      | 14.8Ω/km                     |      |      |    |     |      |      | 71.5 | 2.9  | 9.5  |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      | 66.9Ω/km          |      |      |                              |      |      |    |     |      |      | 135  | 4.0  | 13.0 |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 270  | 5.6  | 18.4 |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 360  | 6.6  | 21.5 |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 540  | 8.6  | 28.3 |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 720  | 10.1 | 33.2 |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 750  | 10.4 | 34.1 |
|                                                                      |       |                                                                                                                                                                                                                |        |         |      |      |                   |      |      |                              |      |      |    |     |      |      | 1000 | 12.8 | 41.9 |

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

# Precision Video Cable for Analog and Digital

## RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 20 AWG Solid .032" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------|-------|---------|-------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                 | 1505A | NEC:    | 500▲  | 152.4  | 17.5  | 8.0  | 20 AWG   | .145 | 3.68 | Duofoil  | .234 | 5.94 | 75 | 83% | 16.3 | 53.5 | 1    | .3   | 1.0  |
| Digital Video                                                            |       | CMR     | 1000● | 304.8  | 36.0  | 16.4 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .6   | 1.8  |
| 75°C                                                                     |       | CEC:    | 5000● | 1524.0 | 165.4 | 75.2 | .032"    |      |      | TC Braid |      |      |    |     |      |      | 10   | .9   | 2.9  |
|                                                                          |       | CMG FT4 |       |        |       |      | BC       |      |      | 3.8Ω/M'  |      |      |    |     |      |      | 71.5 | 2.1  | 6.9  |
|                                                                          |       |         |       |        |       |      | 10.0Ω/M' |      |      | 12.5Ω/km |      |      |    |     |      |      | 135  | 2.7  | 8.9  |
|                                                                          |       |         |       |        |       |      | 32.8Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.8  | 12.5 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 360  | 4.4  | 14.4 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 540  | 5.5  | 18.0 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 720  | 6.4  | 21.0 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 750  | 6.5  | 21.3 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 1000 | 7.6  | 24.9 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 1500 | 9.3  | 30.5 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 2250 | 11.6 | 38.0 |
|                                                                          |       |         |       |        |       |      |          |      |      |          |      |      |    |     |      |      | 3000 | 13.4 | 44.0 |

▲500 ft. put-up available in Black, Red or Blue only.

●1000 ft. and 5000 ft. put-ups available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

### 22 AWG Stranded (7x29) .031" Bare Compacted Copper\* • Double Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White or Violet) |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------|-------|------|------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| High-Flex                                                                                               | 1505F | NEC: | 1000 | 304.8 | 44.0 | 20.0 | 22 AWG   | .145 | 3.68 | TC Double  | .242 | 6.15 | 75 | 80% | 17.0 | 55.7 | 1    | .2   | .7   |
| SDI/HDTV                                                                                                | new   | CM   |      |       |      |      | (7x29)   |      |      | Braid      |      |      |    |     |      |      | 3.6  | .5   | 1.6  |
| Video Patch                                                                                             |       | CEC: |      |       |      |      | .031"    |      |      | 95% Shield |      |      |    |     |      |      | 10   | .9   | 2.9  |
| 75°C                                                                                                    |       | CM   |      |       |      |      | BCC      |      |      | Coverage   |      |      |    |     |      |      | 71.5 | 2.5  | 8.2  |
|                                                                                                         |       |      |      |       |      |      | 12.2Ω/M' |      |      | 2.4Ω/M'    |      |      |    |     |      |      | 135  | 3.5  | 11.5 |
|                                                                                                         |       |      |      |       |      |      | 40.0Ω/km |      |      | 7.8Ω/km    |      |      |    |     |      |      | 270  | 5.1  | 16.7 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 360  | 6.0  | 19.7 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 540  | 7.4  | 24.3 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 720  | 8.7  | 28.5 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 750  | 8.9  | 29.2 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 10.5 | 34.4 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 1500 | 13.3 | 43.6 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 2250 | 16.9 | 55.4 |
|                                                                                                         |       |      |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 3000 | 20.3 | 66.6 |

### 20 AWG Solid .032" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Plenum • Foam FEP Insulation • Flammarrest® Jacket (Available in 10 colors)* |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------|-------|---------|--------|-------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                     | 1506A | NEC:    | 500†*  | 152.4 | 16.5 | 7.5  | 20 AWG   | .133 | 3.38 | Duofoil  | .199 | 5.05 | 75 | 84% | 16.1 | 52.8 | 1    | .3   | 1.0  |
| Digital Video                                                                |       | CMP     | 1000†* | 304.8 | 33.0 | 15.0 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .6   | 2.0  |
| 75°C                                                                         |       | CEC:    |        |       |      |      | .032"    |      |      | TC Braid |      |      |    |     |      |      | 10   | 1.1  | 3.4  |
|                                                                              |       | CMF FT6 |        |       |      |      | BC       |      |      | 3.8Ω/M'  |      |      |    |     |      |      | 71.5 | 2.3  | 7.4  |
|                                                                              |       |         |        |       |      |      | 10.0Ω/M' |      |      | 10.5Ω/km |      |      |    |     |      |      | 135  | 3.2  | 10.5 |
|                                                                              |       |         |        |       |      |      | 32.8Ω/km |      |      |          |      |      |    |     |      |      | 270  | 4.6  | 14.9 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 360  | 5.3  | 17.2 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 540  | 6.4  | 21.0 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 720  | 7.3  | 23.9 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 750  | 7.5  | 24.6 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 1000 | 9.4  | 30.8 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 1500 | 12.8 | 42.0 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 2250 | 17.5 | 57.4 |
|                                                                              |       |         |        |       |      |      |          |      |      |          |      |      |    |     |      |      | 3000 | 21.9 | 71.8 |

Suitable for Outdoor and Direct Burial applications.

\*500 ft. put-up available in Black or Natural only.

†1000 ft. put-up available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural.

### 20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield

| Polyethylene Insulation • Gray Non-contaminating PVC Jacket |      |         |      |       |      |      |          |      |      |            |      |      |    |     |      |      |      |     |      |
|-------------------------------------------------------------|------|---------|------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|-----|------|
| 60°C                                                        | 9231 | NEC:    | 500  | 152.4 | 38.0 | 17.3 | 20 AWG   | .198 | 5.03 | TC Double  | .305 | 7.75 | 75 | 66% | 21.0 | 68.9 | 1    | .3  | 1.0  |
| VW-1                                                        |      | CMH     | 1000 | 304.8 | 76.0 | 34.5 | (solid)  |      |      | Braid      |      |      |    |     |      |      | 3.6  | .5  | 1.6  |
|                                                             |      | CEC:    |      |       |      |      | .031"    |      |      | 98% Shield |      |      |    |     |      |      | 10.0 | .8  | 2.6  |
|                                                             |      | CMH FT1 |      |       |      |      | BC       |      |      | Coverage   |      |      |    |     |      |      | 71.5 | 2.0 | 6.6  |
|                                                             |      |         |      |       |      |      | 9.9Ω/M'  |      |      | 1.1Ω/M'    |      |      |    |     |      |      | 135  | 3.5 | 11.5 |
|                                                             |      |         |      |       |      |      | 32.5Ω/km |      |      | 3.6Ω/km    |      |      |    |     |      |      | 270  | 4.3 | 14.1 |
|                                                             |      |         |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 360  | 5.0 | 16.4 |
|                                                             |      |         |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 540  | 6.2 | 20.3 |
|                                                             |      |         |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 720  | 7.2 | 23.6 |
|                                                             |      |         |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 750  | 7.4 | 24.3 |
|                                                             |      |         |      |       |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 9.1 | 29.8 |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

†Spools are one piece, but length may vary ±10% from length shown.



# Precision Video Cable for Analog and Digital

## Double Braided RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield (continued)

| Polyethylene Insulation • Clear Polyethylene Jacket |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |      |     |      |
|-----------------------------------------------------|-------------|--|------|-------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
| Indoor Use<br>80°C                                  | <b>9141</b> |  | 1000 | 304.8 | 73.0 | 33.2 | 20 AWG<br>(solid)<br>.031"<br>BC<br>9.9Ω/M'<br>32.5Ω/km | .200 | 5.06 | TC Double<br>Braid<br>98% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .305 | 7.75 | 75 | 66% | 20.0 | 65.6 | 1    | .3  | 1.0  |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 3.6  | .5  | 1.6  |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 10.0 | .8  | 2.6  |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 71.5 | 2.0 | 6.6  |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 135  | 3.5 | 11.5 |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 270  | 4.3 | 14.1 |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 360  | 5.0 | 16.4 |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 540  | 6.2 | 20.3 |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 720  | 7.2 | 23.6 |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 750  | 7.4 | 24.3 |
|                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 1000 | 9.1 | 29.8 |



### 20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield

| Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Light Blue, White, Orange or Black) |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |      |     |      |
|---------------------------------------------------------------------------------------------------------------------|-------------|--|------|-------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|------|-----|------|
| 80°C                                                                                                                | <b>8281</b> |  | 500* | 152.4 | 37.0 | 16.8 | 20 AWG<br>(solid)<br>.031"<br>BC<br>9.9Ω/M'<br>32.5Ω/km | .198 | 5.03 | TC Double<br>Braid<br>98% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .305 | 7.75 | 75 | 66% | 21.0 | 68.9 | 1    | .3  | .8   |
|                                                                                                                     |             |  | 1000 | 304.8 | 74.0 | 33.6 |                                                         |      |      |                                                                    |      |      |    |     |      |      | 3.6  | .5  | 1.8  |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 10.0 | .8  | 2.6  |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 71.5 | 2.1 | 6.9  |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 135  | 3.0 | 9.8  |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 270  | 4.3 | 14.1 |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 360  | 5.1 | 16.6 |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 540  | 6.3 | 20.7 |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 720  | 7.4 | 24.3 |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 750  | 7.6 | 24.9 |
|                                                                                                                     |             |  |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 1000 | 9.2 | 30.2 |

\*500 ft. put-up not available in White.

| Flame-retardant Semi-Foam Polyethylene Insulation • PVC Jacket (Available in 10 colors)* |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------------------|--------------|--------------------------------|------|-------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| UL AWM<br>Style 1354<br>(30V 80°C)                                                       | <b>8281B</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1000 | 304.8 | 85.0 | 38.6 | 20 AWG<br>(solid)<br>.031"<br>BC<br>9.9Ω/M'<br>32.5Ω/km | .198 | 5.03 | TC Double<br>Braid<br>98% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .305 | 7.75 | 75 | 66% | 21.0 | 68.9 | 1    | .3   | .8   |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 3.6  | .5   | 1.8  |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 10.0 | .8   | 2.6  |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 71.5 | 2.1  | 6.9  |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 135  | 3.0  | 9.8  |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 270  | 4.4  | 14.4 |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 360  | 5.1  | 16.6 |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 540  | 6.6  | 21.5 |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 720  | 7.8  | 25.4 |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 750  | 8.0  | 26.2 |
|                                                                                          |              |                                |      |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 1000 | 10.2 | 33.5 |

\*8281B available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.

### 22 AWG Stranded (7x29) .031" Bare Compacted Copper\* • Double Tinned Copper Braid Shield

| Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black) |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------|--------------|--|------|-------|------|------|----------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| High-Flex<br>60°C                                                            | <b>8281F</b> |  | 500* | 152.4 | 32.0 | 14.5 | 22 AWG<br>(7x29)<br>.031"<br>BCC<br>12.2Ω/M'<br>40.0Ω/km | .193 | 4.90 | TC Double<br>Braid<br>98% Shield<br>Coverage<br>1.7Ω/M'<br>5.6Ω/km | .305 | 7.75 | 75 | 66% | 21.0 | 68.9 | 1    | .3   | .9   |
|                                                                              |              |  | 1000 | 304.8 | 65.0 | 29.5 |                                                          |      |      |                                                                    |      |      |    |     |      |      | 3.6  | .5   | 1.7  |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 10.0 | .9   | 2.9  |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 71.5 | 2.5  | 8.0  |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 135  | 3.6  | 11.6 |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 270  | 5.1  | 16.7 |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 360  | 6.0  | 19.7 |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 540  | 7.4  | 24.3 |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 720  | 8.7  | 28.5 |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 750  | 8.9  | 29.2 |
|                                                                              |              |  |      |       |      |      |                                                          |      |      |                                                                    |      |      |    |     |      |      | 1000 | 10.5 | 34.4 |

\*500 ft. put-up available in Black only.

### 20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield

| Plenum • FEP Insulation • Black Fluorocopolymer Jacket |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------|--------------|--------------------------------|-------|-------|------|------|---------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 150°C                                                  | <b>88281</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 500†  | 152.4 | 46.0 | 20.9 | 20 AWG<br>(solid)<br>.032"<br>BC<br>9.9Ω/M'<br>32.5Ω/km | .185 | 4.70 | TC Double<br>Braid<br>98% Shield<br>Coverage<br>1.1Ω/M'<br>3.6Ω/km | .271 | 6.88 | 75 | 71% | 19.0 | 62.4 | 1    | .2   | .7   |
|                                                        |              |                                | 1000† | 304.8 | 86.0 | 39.1 |                                                         |      |      |                                                                    |      |      |    |     |      |      | 3.6  | .5   | 1.6  |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 10.0 | .8   | 2.6  |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 71.5 | 2.3  | 7.5  |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 135  | 3.3  | 10.8 |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 270  | 5.1  | 16.7 |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 360  | 6.1  | 20.0 |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 540  | 8.0  | 26.2 |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 720  | 9.7  | 31.8 |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 750  | 10.0 | 32.8 |
|                                                        |              |                                |       |       |      |      |                                                         |      |      |                                                                    |      |      |    |     |      |      | 1000 | 12.3 | 40.3 |

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

†Spools are one piece, but length may vary ±10% from length shown.

# Precision Video Cable for Analog and Digital

Low Loss Serial Digital Coax  
RG-6/U, RG-7/U and RG-11/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor (stranding) |          | Nominal Core OD |    | Shielding Materials | Nominal OD |    | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nominal Capacitance |      | Nominal Attenuation |            |         |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------------|----------|-----------------|----|---------------------|------------|----|---------------|--------------------|---------------------|------|---------------------|------------|---------|
|             |          |                              | Ft.              | m | Lbs.                 | kg | Diameter              | Nom. DCR | Inch            | mm |                     | Inch       | mm |               |                    | pF/Ft.              | pF/m | MHz                 | dB/100 Ft. | dB/100m |

## RG-6/U Type • 18 AWG Solid .040" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      |      |      |      |  |
|--------------------------------------------------------------------------|--------------|---------|------------------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|--|
| SDI/HDTV                                                                 | <b>1694A</b> | NEC:    | 500 <sup>▲</sup> | 152.4  | 23.0  | 10.5 | 18 AWG   | .180 | 4.57 | Duofoil  | .275 | 6.99 | 75 | 82% | 16.2 | 53.1 | 1    | 2    | .8   |  |
| Digital Video                                                            | <b>new</b>   | CMR     | 1000             | 304.8  | 45.0  | 20.5 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | 5    | 1.5  |  |
| 75°C                                                                     |              | CEC:    | 4500             | 1371.6 | 207.0 | 94.3 | .040"    |      |      | TC Braid |      |      |    |     |      |      | 10   | 7    | 2.4  |  |
|                                                                          |              | CMG FT4 |                  |        |       |      | BC       |      |      | 2.8Ω/M'  |      |      |    |     |      |      | 71.5 | 1.6  | 5.2  |  |
|                                                                          |              |         |                  |        |       |      | 6.4Ω/M'  |      |      | 9.2Ω/km  |      |      |    |     |      |      | 135  | 2.1  | 6.9  |  |
|                                                                          |              |         |                  |        |       |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.0  | 9.7  |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 360  | 3.4  | 11.3 |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 540  | 4.3  | 13.9 |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 720  | 4.9  | 16.1 |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 750  | 5.0  | 16.4 |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 1000 | 5.9  | 19.3 |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 1500 | 7.3  | 24.0 |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 2250 | 9.1  | 30.0 |  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 3000 | 10.7 | 35.0 |  |

\*500 ft. put-up available in Black only.

| Plenum • Foam FEP Insulation • Flammarrest® Jacket (Available in 10 colors)** |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |      |      |  |
|-------------------------------------------------------------------------------|--------------|---------|-------------------|-------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|--|
| SDI/HDTV                                                                      | <b>1695A</b> | NEC:    | 500 <sup>†</sup>  | 152.4 | 22.5 | 10.2 | 18 AWG   | .170 | 4.32 | Duofoil  | .234 | 5.94 | 75 | 82% | 16.2 | 53.1 | 1    | 2    | .8   |  |
| Digital Video                                                                 | <b>new</b>   | CMR     | 1000 <sup>†</sup> | 304.8 | 45.0 | 20.5 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | 5    | 1.5  |  |
| 75°C                                                                          |              | CEC:    |                   |       |      |      | .040"    |      |      | TC Braid |      |      |    |     |      |      | 10   | 8    | 2.5  |  |
|                                                                               |              | CMG FT6 |                   |       |      |      | BC       |      |      | 2.8Ω/M'  |      |      |    |     |      |      | 71.5 | 1.8  | 5.8  |  |
|                                                                               |              |         |                   |       |      |      | 6.4Ω/M'  |      |      | 9.2Ω/km  |      |      |    |     |      |      | 135  | 2.4  | 7.9  |  |
|                                                                               |              |         |                   |       |      |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.4  | 11.2 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 360  | 4.0  | 13.1 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 540  | 5.2  | 17.1 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 720  | 6.1  | 20.0 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 750  | 7.3  | 23.9 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 1000 | 7.5  | 24.6 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 1500 | 9.2  | 30.2 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 2250 | 11.6 | 38.0 |  |
|                                                                               |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 3000 | 13.7 | 44.9 |  |

\*500 ft. put-up available in Black, Red, Yellow, Violet or Natural only.

## RG-7/U Type • 16 AWG Solid .064" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)** |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      |      |     |      |  |
|---------------------------------------------------------------------------|--------------|---------|------------------|-------|------|------|---------|------|------|----------|------|------|----|-----|------|------|------|-----|------|--|
| SDI/HDTV                                                                  | <b>7855A</b> | NEC:    | 500 <sup>▼</sup> | 152.4 | 32.5 | 14.8 | 16 AWG  | .225 | 5.71 | Duofoil  | .320 | 8.13 | 75 | 84% | 16.1 | 52.8 | 1    | 2   | .6   |  |
| Digital Video                                                             |              | CMR     | 1000             | 304.8 | 62.0 | 28.2 | (solid) |      |      | + 95%    |      |      |    |     |      |      | 3.6  | 4   | 1.2  |  |
| 80°C                                                                      |              | CEC:    |                  |       |      |      | .064"   |      |      | TC Braid |      |      |    |     |      |      | 10   | 6   | 1.9  |  |
|                                                                           |              | CMR FT4 |                  |       |      |      | BC      |      |      | 1.7Ω/M'  |      |      |    |     |      |      | 71.5 | 1.1 | 3.6  |  |
|                                                                           |              |         |                  |       |      |      | 1.2Ω/M' |      |      | 5.6Ω/km  |      |      |    |     |      |      | 135  | 1.8 | 5.8  |  |
|                                                                           |              |         |                  |       |      |      | 3.9Ω/km |      |      |          |      |      |    |     |      |      | 270  | 2.5 | 8.1  |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 360  | 2.9 | 9.4  |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 540  | 3.6 | 11.7 |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 720  | 4.2 | 13.7 |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 750  | 4.3 | 14.0 |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 1000 | 5.0 | 16.3 |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 1500 | 6.1 | 20.0 |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 2500 | 7.9 | 25.9 |  |
|                                                                           |              |         |                  |       |      |      |         |      |      |          |      |      |    |     |      |      | 3000 | 8.7 | 28.5 |  |

\*500 ft. put-up available in Black only.

## RG-11/U Type • 14 AWG Solid .064" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      |      |     |      |  |
|--------------------------------------------------------------------------|--------------|---------|------------------|--------|-------|-------|---------|------|------|----------|------|------|----|-----|------|------|------|-----|------|--|
| SDI/HDTV                                                                 | <b>7731A</b> | NEC:    | 500 <sup>*</sup> | 152.4  | 48.0  | 21.8  | 14 AWG  | .280 | 7.11 | Duofoil  | .405 | 10.3 | 75 | 85% | 16.0 | 52.4 | 1    | 2   | .5   |  |
| Digital Video                                                            |              | CMR     | 1000             | 304.8  | 94.0  | 42.8  | (solid) |      |      | + 95%    |      |      |    |     |      |      | 3.6  | 3   | 1.0  |  |
| 75°C                                                                     |              | CEC:    | 4000             | 1219.2 | 467.0 | 212.3 | .064"   |      |      | TC Braid |      |      |    |     |      |      | 10   | 5   | 1.5  |  |
|                                                                          |              | CMG FT4 |                  |        |       |       | BC      |      |      | 1.5Ω/M'  |      |      |    |     |      |      | 71.5 | 1.1 | 3.6  |  |
|                                                                          |              |         |                  |        |       |       | 2.5Ω/M' |      |      | 4.9Ω/km  |      |      |    |     |      |      | 135  | 1.5 | 4.8  |  |
|                                                                          |              |         |                  |        |       |       | 8.2Ω/km |      |      |          |      |      |    |     |      |      | 270  | 2.1 | 6.9  |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 360  | 2.5 | 8.0  |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 540  | 3.1 | 10.0 |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 720  | 3.6 | 11.7 |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 750  | 3.7 | 12.0 |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 1000 | 4.3 | 14.1 |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 1500 | 5.5 | 18.0 |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 2250 | 6.9 | 22.6 |  |
|                                                                          |              |         |                  |        |       |       |         |      |      |          |      |      |    |     |      |      | 3000 | 8.2 | 26.9 |  |

\*500 ft. put-up available in Red or Black only.

| Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Available in 10 colors)** |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      |      |      |      |  |
|----------------------------------------------------------------------------------|--------------|---------|-------------------|-------|-------|------|---------|------|------|----------|------|------|----|-----|------|------|------|------|------|--|
| SDI/HDTV                                                                         | <b>7732A</b> | NEC:    | 500 <sup>*</sup>  | 152.4 | 45.0  | 20.5 | 14 AWG  | .274 | 6.96 | Duofoil  | .348 | 8.84 | 75 | 83% | 16.3 | 53.5 | 1    | 2    | .5   |  |
| Digital Video                                                                    | <b>new</b>   | CMR     | 1000              | 304.8 | 88.0  | 40.0 | (solid) |      |      | + 95%    |      |      |    |     |      |      | 3.6  | 3    | .9   |  |
| 150°C                                                                            |              | CEC:    | 2000 <sup>*</sup> | 609.6 | 176.0 | 80.0 | .064"   |      |      | TC Braid |      |      |    |     |      |      | 10   | 4    | 1.3  |  |
|                                                                                  |              | CMG FT6 |                   |       |       |      | BC      |      |      | 2.5Ω/M'  |      |      |    |     |      |      | 71.5 | 1.2  | 4.1  |  |
|                                                                                  |              |         |                   |       |       |      | 2.5Ω/M' |      |      | 8.2Ω/km  |      |      |    |     |      |      | 135  | 1.8  | 5.8  |  |
|                                                                                  |              |         |                   |       |       |      | 8.2Ω/km |      |      |          |      |      |    |     |      |      | 270  | 2.6  | 8.5  |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 360  | 3.1  | 10.2 |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 540  | 3.9  | 12.8 |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 720  | 4.6  | 15.0 |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 750  | 4.7  | 15.4 |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 1000 | 5.5  | 18.0 |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 1500 | 6.9  | 22.7 |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 2250 | 9.2  | 30.2 |  |
|                                                                                  |              |         |                   |       |       |      |         |      |      |          |      |      |    |     |      |      | 3000 | 10.2 | 33.5 |  |

\*500 ft. put-up available in Black or Natural only.

\*\*2000 ft. put-up available in Natural only.

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG-U cables not listed.

\* Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

\*\* Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural.

† Spools are one piece, but length may vary ±10% from length shown.



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1-800-527-0010



# VideoFLEX® Snake Cable for Precision Digital and Analog

## Bundled Miniature and RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

### Miniature • 23 AWG Solid .023" Bare Copper • Duofoil® + 95% Tinned Copper Braid (100% Shield Coverage)

| Solid Copper, Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)                            |                                    |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      |      |     |      |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------|-------|-------|-------|-------|----------|----------|-------|---------|----------|----------|-------|-----|------|------|------|------|------|-----|------|
| SDI/HDTV<br>Digital Video<br>75°C<br>(1855A Bundled)<br> | <b>7787A</b><br><small>new</small> | NEC:                               | 3    | 500   | 152.4 | 47.5  | 21.6  | 23 AWG   | .102     | 2.55  | Duofoil | .432     | 10.97    | 75    | 83% | 16.5 | 54.1 | 1    | .4   | 1.3  |     |      |
|                                                                                                                                           |                                    | CMR                                |      | 1000  | 304.8 | 94.0  | 42.7  | (solid)  |          |       | + 95%   |          |          |       |     |      |      |      | 3.6  | .8   | 2.6 |      |
|                                                                                                                                           |                                    | CEC:                               |      |       |       |       |       | .023"    | Coax OD: | .159  | 4.03    | TC Braid |          |       |     |      |      |      | 10   | 1.2  | 3.9 |      |
|                                                                                                                                           |                                    | CMG FT4                            |      |       |       |       |       | BC       |          |       |         |          | 7.6Ω/M'  |       |     |      |      |      |      | 71.5 | 3.1 | 10.0 |
|                                                                                                                                           |                                    |                                    |      |       |       |       |       | 20.1Ω/M' |          |       |         |          | 24.9Ω/km |       |     |      |      |      |      | 135  | 3.8 | 12.5 |
|                                                                                                                                           |                                    |                                    |      |       |       |       |       | 65.9Ω/km |          |       |         |          |          |       |     |      |      |      |      | 270  | 5.4 | 17.7 |
|                                                                                                                                           |                                    |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      | 360  | 6.2 | 20.3 |
|                                                                                                                                           |                                    |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      | 540  | 7.7 | 25.3 |
|                                                                                                                                           |                                    |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      | 720  | 9.1 | 29.8 |
|                                                                                                                                           |                                    | <b>7788A</b><br><small>new</small> | NEC: | 4     | 1000  | 304.8 | 111.0 | 50.5     | same     | .102  | 2.55    | same     | .481     | 12.22 |     |      |      |      |      | 750  | 9.5 | 31.2 |
| CMR                                                                                                                                       |                                    |                                    |      |       |       |       | as    |          |          | as    |         |          |          |       |     |      |      | 1000 | 10.5 | 34.4 |     |      |
| CEC:                                                                                                                                      |                                    |                                    |      |       |       |       | above |          |          | above |         |          |          |       |     |      |      | 1500 | 13.0 | 42.6 |     |      |
| CMG FT4                                                                                                                                   |                                    |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      | 2500 | 16.9 | 55.4 |     |      |
| <b>7789A</b><br><small>new</small>                                                                                                        | NEC:                               | 5                                  | 500  | 152.4 | 72.5  | 33.0  | same  | .102     | 2.55     | same  | .539    | 13.69    |          |       |     |      |      | 3000 | 18.5 | 60.7 |     |      |
|                                                                                                                                           | CMR                                |                                    | 1000 | 304.8 | 141.0 | 64.1  | as    |          |          | as    |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CEC:                               |                                    |      |       |       |       | above |          |          | above |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CMG FT4                            |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      |      |     |      |
| <b>7790A</b><br><small>new</small>                                                                                                        | NEC:                               | 6                                  | 500  | 152.4 | 88.5  | 40.2  | same  | .102     | 2.55     | same  | .597    | 15.16    |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CMR                                |                                    | 1000 | 304.8 | 175.0 | 79.5  | as    |          |          | as    |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CEC:                               |                                    |      |       |       |       | above |          |          | above |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CMG FT4                            |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      |      |     |      |
| <b>7791A</b><br><small>new</small>                                                                                                        | NEC:                               | 10                                 | 500  | 152.4 | 155.5 | 70.7  | same  | .102     | 2.55     | same  | .796    | 20.22    |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CMR                                |                                    | 1000 | 304.8 | 303.0 | 137.7 | as    |          |          | as    |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CEC:                               |                                    |      |       |       |       | above |          |          | above |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CMG FT4                            |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      |      |     |      |
| <b>7792A</b><br><small>new</small>                                                                                                        | NEC:                               | 12                                 | 500  | 152.4 | 171.5 | 78.0  | same  | .102     | 2.55     | same  | .825    | 20.96    |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CMR                                |                                    | 1000 | 304.8 | 353.0 | 160.5 | as    |          |          | as    |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CEC:                               |                                    |      |       |       |       | above |          |          | above |         |          |          |       |     |      |      |      |      |      |     |      |
|                                                                                                                                           | CMG FT4                            |                                    |      |       |       |       |       |          |          |       |         |          |          |       |     |      |      |      |      |      |     |      |

Sweep tested 5 MHz to 3 GHz.

Sweep tested 5 MHz to 3 GHz.

### RG-59/U Type • 20 AWG Solid .032" Bare Copper • Duofoil® + 95% Tinned Copper Braid (100% Shield Coverage)

| Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)                                            |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------|------|-------|-------|-------|-------|---------------------------------|---------------------------------|------|---------------------|-------|-------|----|-----|------|------|------|------|------|
| SDI/HDTV<br>Digital Video<br>75°C<br>(1505A Bundled)<br> | <b>7794A</b><br><small>new</small> | NEC:    | 3    | 500   | 152.4 | 94.5  | 43.0  | 20 AWG<br>(solid)               | .145                            | 3.68 | Duofoil<br>+ 95%    | .631  | 16.03 | 75 | 83% | 16.3 | 53.1 | 1    | .3   | 1.0  |
|                                                                                                                                             |                                    | CMR     |      | 1000  | 304.8 | 188.0 | 85.5  | .032"                           | <small>Coax OD:</small><br>.235 | 5.97 | TC Braid            |       |       |    |     |      |      | 3.6  | .6   | 1.8  |
|                                                                                                                                             |                                    | CEC:    |      |       |       |       |       | BC                              |                                 |      | 3.8Ω/M'             |       |       |    |     |      |      | 10   | .9   | 2.9  |
|                                                                                                                                             |                                    | CMG FT4 |      |       |       |       |       | 10.0Ω/M'                        |                                 |      | 12.5Ω/km            |       |       |    |     |      |      | 71.5 | 2.1  | 6.9  |
|                                                                                                                                             |                                    |         |      |       |       |       |       | 32.8Ω/km                        |                                 |      |                     |       |       |    |     |      |      | 135  | 2.7  | 8.9  |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      | 270  | 3.8  | 12.5 |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      | 360  | 4.4  | 14.4 |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      | 540  | 5.5  | 18.0 |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      | 720  | 6.4  | 21.0 |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      | 750  | 6.5  | 21.3 |
|                                                                                                                                             | <b>7795A</b><br><small>new</small> | NEC:    | 4    | 500   | 152.4 | 116.5 | 53.0  | same<br>as<br>above             | .145                            | 3.68 | same<br>as<br>above | .706  | 17.93 |    |     |      |      | 1000 | 7.6  | 24.9 |
| CMR                                                                                                                                         |                                    |         | 1000 | 304.8 | 237.0 | 107.7 |       | <small>Coax OD:</small><br>.235 | 5.97                            |      |                     |       |       |    |     |      | 1500 | 9.4  | 30.8 |      |
| CEC:                                                                                                                                        |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      | 2500 | 12.4 | 40.7 |      |
| CMG FT4                                                                                                                                     |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      | 3000 | 13.8 | 45.3 |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             | <b>7796A</b><br><small>new</small> | NEC:    | 5    | 500   | 152.4 | 150.0 | 68.2  | same<br>as<br>above             | .145                            | 3.68 | same<br>as<br>above | .790  | 20.07 |    |     |      |      |      |      |      |
| CMR                                                                                                                                         |                                    |         | 1000 | 304.8 | 293.0 | 133.2 |       | <small>Coax OD:</small><br>.235 | 5.97                            |      |                     |       |       |    |     |      |      |      |      |      |
| CEC:                                                                                                                                        |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
| CMG FT4                                                                                                                                     |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             | <b>7798A</b><br><small>new</small> | NEC:    | 10   | 500   | 152.4 | 319.5 | 145.2 | same<br>as<br>above             | .145                            | 3.68 | same<br>as<br>above | 1.166 | 29.62 |    |     |      |      |      |      |      |
| CMR                                                                                                                                         |                                    |         | 1000 | 304.8 | 625.0 | 284.1 |       | <small>Coax OD:</small><br>.235 | 5.97                            |      |                     |       |       |    |     |      |      |      |      |      |
| CEC:                                                                                                                                        |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
| CMG FT4                                                                                                                                     |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |
|                                                                                                                                             |                                    |         |      |       |       |       |       |                                 |                                 |      |                     |       |       |    |     |      |      |      |      |      |

Sweep tested 5 MHz to 3 GHz.

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

See Connector Reference Guide at [www.belden.com](http://www.belden.com) for connector recommendations.

### Color Code Chart

| Cond. | Color | Cond. | Color  | Cond. | Color  |
|-------|-------|-------|--------|-------|--------|
| 1     | Red   | 5     | Yellow | 9     | Violet |
| 2     | Green | 6     | Brown  | 10    | Black  |
| 3     | Blue  | 7     | Orange | 11    | Pink   |
| 4     | White | 8     | Gray   | 12    | Tan    |



# VideoFLEX® Snake Cable for Precision Digital and Analog

## RG-6/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**RG-6/U Type • 18 AWG** Solid .040" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

**Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket** (Color Code: See chart below)

|                                                      |              |                                |    |             |                |                |                |                                                         |                          |              |                                                    |       |       |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |
|------------------------------------------------------|--------------|--------------------------------|----|-------------|----------------|----------------|----------------|---------------------------------------------------------|--------------------------|--------------|----------------------------------------------------|-------|-------|----|-----|------|------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| SDI/HDTV<br>Digital Video<br>60°C<br>(1694A Bundled) | <b>7710A</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 3  | 500<br>1000 | 152.4<br>304.8 | 131.5<br>273.0 | 59.8<br>124.1  | 18 AWG<br>(solid)<br>.040"<br>BC<br>6.4Ω/M'<br>21.0Ω/km | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | Duofoil<br>+ 95%<br>TC Braid<br>2.8Ω/M'<br>9.2Ω/km | .770  | 19.56 | 75 | 82% | 16.2 | 53.1 | 1<br>3.6<br>10<br>71.5<br>135<br>270<br>360<br>540<br>720<br>750<br>1000<br>1500<br>2500<br>3000 | .2<br>.5<br>.7<br>1.6<br>2.1<br>3.0<br>3.4<br>4.3<br>4.9<br>5.0<br>5.9<br>7.3<br>9.7<br>10.0 | .8<br>1.5<br>2.4<br>5.2<br>6.9<br>9.7<br>11.3<br>13.9<br>16.1<br>16.4<br>19.3<br>24.0<br>31.8<br>32.8 |
|                                                      | <b>7711A</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 4  | 500<br>1000 | 152.4<br>304.8 | 174.0<br>339.0 | 79.1<br>154.1  | same<br>as<br>above                                     | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | same<br>as<br>above                                | .900  | 22.86 |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |
|                                                      | <b>7712A</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 5  | 500<br>1000 | 152.4<br>304.8 | 209.5<br>440.0 | 95.2<br>200.0  | same<br>as<br>above                                     | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | same<br>as<br>above                                | .942  | 23.93 |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |
|                                                      | <b>7713A</b> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 10 | 500<br>1000 | 152.4<br>304.8 | 450.0<br>878.0 | 204.5<br>399.1 | same<br>as<br>above                                     | .180<br>Coax OD:<br>.257 | 4.57<br>6.99 | same<br>as<br>above                                | 1.386 | 35.20 |    |     |      |      |                                                                                                  |                                                                                              |                                                                                                       |

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed. See Connector Reference Guide at [www.belden.com](http://www.belden.com) for connector recommendations.

### Color Code Chart

| Cond. | Color  | Cond. | Color  |
|-------|--------|-------|--------|
| 1     | Red    | 6     | Brown  |
| 2     | Green  | 7     | Orange |
| 3     | Blue   | 8     | Gray   |
| 4     | White  | 9     | Violet |
| 5     | Yellow | 10    | Black  |



By:



**INTERSTATE WIRE CO.**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

# Precision Video Cable for Analog and Digital

## Parallel Digital Video

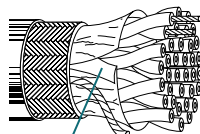


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**28 AWG** Stranded (7x36) Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® + 65% TC Braid Shield • 28 AWG Stranded TC Drain Wire

### Datalene® Insulation • Chrome PVC Jacket

|                                 |             |             |                                  |                                          |      |       |      |      |                    |                   |      |       |     |     |      |      |      |      |
|---------------------------------|-------------|-------------|----------------------------------|------------------------------------------|------|-------|------|------|--------------------|-------------------|------|-------|-----|-----|------|------|------|------|
| UL AWM Style 2919<br>(30V 80°C) | <b>8142</b> | NEC:<br>CL2 | 12.5<br>(12 pairs +<br>1 single) | See<br>Chart 5<br>(Tech Info<br>Section) | 100  | 30.5  | 7.0  | 3.2  | 65.0 $\Omega$ /M'  | 3.1 $\Omega$ /M'  | .407 | 10.34 | 120 | 78% | 11.0 | 36.1 | 20.0 | 65.6 |
|                                 |             |             |                                  |                                          | 500  | 152.4 | 34.5 | 15.7 | 213.0 $\Omega$ /km | 10.1 $\Omega$ /km |      |       |     |     |      |      |      |      |
|                                 |             |             |                                  |                                          | 1000 | 304.8 | 69.0 | 31.4 |                    |                   |      |       |     |     |      |      |      |      |

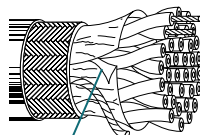


Shorting Fold

**24 AWG** Stranded (7x32) Tinned Copper • Twisted Pairs • Overall 100% Beldfoil + 65% TC Braid Shield • 24 AWG Stranded TC Drain Wire

### Datalene Insulation • Chrome PVC Jacket

|                                 |             |                    |                                  |                                          |      |       |      |      |                   |                  |      |       |     |     |      |    |    |      |
|---------------------------------|-------------|--------------------|----------------------------------|------------------------------------------|------|-------|------|------|-------------------|------------------|------|-------|-----|-----|------|----|----|------|
| UL AWM Style 2919<br>(30V 80°C) | <b>8112</b> | NEC: CM<br>NEC: CM | 12.5<br>(12 pairs +<br>1 single) | See<br>Chart 5<br>(Tech Info<br>Section) | 100  | 30.5  | 10.5 | 4.8  | 24.0 $\Omega$ /M' | 2.4 $\Omega$ /M' | .440 | 11.18 | 100 | 78% | 12.5 | 41 | 22 | 72.2 |
|                                 |             |                    |                                  |                                          | 500  | 152.4 | 49.0 | 22.3 | 78.7 $\Omega$ /km | 7.9 $\Omega$ /km |      |       |     |     |      |    |    |      |
|                                 |             |                    |                                  |                                          | 1000 | 304.8 | 97.0 | 44.1 |                   |                  |      |       |     |     |      |    |    |      |



Shorting Fold

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

# Precision Video Cable for Analog and Digital

Digital Video Time Code and  
Precision Video Twinax



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**110 Ohm • 26 AWG Stranded (7x34) .018" Tinned Copper • Twisted Pair • Beldfoil® Shield • 26 AWG Stranded TC Drain Wire**

| <b>Datalene® Insulation (Color Code: Black, White) • PVC Jacket (Chrome or Purple)</b> |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      |    |     |      |
|----------------------------------------------------------------------------------------|------|--------------------------------|------|-------|------|-----|----------------------------------------------------------|------|------|--------------------------------------------------------------------|------|------|-----|-----|------|------|----|-----|------|
| 80°C                                                                                   | 9180 | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1000 | 304.8 | 11.0 | 5.0 | 26 AWG<br>(7x34)<br>.018"<br>TC<br>37.3Ω/M'<br>122.3Ω/km | .049 | 1.24 | Beldfoil<br>w/Stranded<br>TC Drain<br>Wire<br>23.1Ω/M'<br>75.8Ω/km | .144 | 3.66 | 110 | 78% | 13.0 | 42.7 | 1  | 1.0 | 3.3  |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 3  | 1.6 | 5.2  |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 5  | 1.9 | 6.2  |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 7  | 2.2 | 7.2  |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 9  | 2.5 | 8.2  |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 12 | 2.8 | 9.2  |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 20 | 3.6 | 11.8 |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 30 | 4.4 | 14.4 |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 40 | 5.2 | 17.1 |
|                                                                                        |      |                                |      |       |      |     |                                                          |      |      |                                                                    |      |      |     |     |      |      | 50 | 5.6 | 18.4 |



Shorting Fold

**Twinax • 124 Ohm • 16 AWG Solid .051" Bare Copper • Duofoil® + 90% Tinned Copper Braid Shield (100% Shield Coverage)**

| <b>Foam Polyethylene Insulation (Color Code: Clear, Blue) • Black PVC Jacket</b> |      |                            |     |       |      |      |                                                         |      |      |                                                    |      |       |     |     |      |      |     |     |      |
|----------------------------------------------------------------------------------|------|----------------------------|-----|-------|------|------|---------------------------------------------------------|------|------|----------------------------------------------------|------|-------|-----|-----|------|------|-----|-----|------|
| UL AWM<br>Style 2448<br>(30V 60°C)                                               | 9860 | NEC:<br>CMX<br>CEC:<br>CMX | 500 | 152.4 | 52.0 | 23.6 | 16 AWG<br>(solid)<br>.051"<br>BC<br>4.2Ω/M'<br>13.8Ω/km | .322 | 8.18 | Duofoil<br>+ 90%<br>TC Braid<br>1.3Ω/M'<br>4.3Ω/km | .440 | 11.18 | 124 | 78% | 10.9 | 35.8 | 1   | .2  | .6   |
|                                                                                  |      |                            |     |       |      |      |                                                         |      |      |                                                    |      |       |     |     |      |      | 10  | .7  | 2.3  |
|                                                                                  |      |                            |     |       |      |      |                                                         |      |      |                                                    |      |       |     |     |      |      | 50  | 1.8 | 5.9  |
|                                                                                  |      |                            |     |       |      |      |                                                         |      |      |                                                    |      |       |     |     |      |      | 100 | 2.9 | 9.5  |
|                                                                                  |      |                            |     |       |      |      |                                                         |      |      |                                                    |      |       |     |     |      |      | 200 | 4.1 | 13.5 |
|                                                                                  |      |                            |     |       |      |      |                                                         |      |      |                                                    |      |       |     |     |      |      | 400 | 6.2 | 20.3 |

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

## Maximum Transmission Distance at Serial Digital Data Rates

| Data Rate:   |  | 143 Mb/s       |     | 177 Mb/s      |     | 270 Mb/s        |     | 360 Mb/s             |     | 540 Mb/s             |     | 1.5 Gb/s   |     |
|--------------|--|----------------|-----|---------------|-----|-----------------|-----|----------------------|-----|----------------------|-----|------------|-----|
| Spec:        |  | SMPTE 259M     |     | ITU-R BT. 601 |     | SMPTE 259M      |     | SMPTE 259M           |     | SMPTE 344M*          |     | SMPTE 252M |     |
| Application: |  | Composite NTSC |     | Composite PAL |     | Component Video |     | Component Widescreen |     | Component Widescreen |     | HDTV       |     |
| Part No.     |  | Ft.            | m   | Ft.           | m   | Ft.             | m   | Ft.                  | m   | Ft.                  | m   | Ft.        | m   |
| 1865A        |  | 810            | 247 | 760           | 232 | 600             | 183 | 520                  | 158 | 420                  | 128 | 170        | 52  |
| 8279         |  | 910            | 277 | 810           | 247 | 640             | 195 | 550                  | 168 | 440                  | 134 | 170        | 52  |
| 1855A-7787A  |  | 1000           | 305 | 910           | 277 | 750             | 229 | 650                  | 198 | 530                  | 162 | 210        | 64  |
| 9209         |  | 1030           | 314 | 930           | 283 | 750             | 229 | 650                  | 198 | 540                  | 165 | 200        | 61  |
| 9209A        |  | 1030           | 314 | 930           | 283 | 750             | 229 | 650                  | 198 | 540                  | 165 | 200        | 61  |
| 1505A-7794A  |  | 1430           | 436 | 1320          | 402 | 1110            | 338 | 960                  | 293 | 790                  | 241 | 300        | 91  |
| 1505F        |  | 1200           | 366 | 1071          | 326 | 857             | 261 | 732                  | 223 | 588                  | 179 | 225        | 69  |
| 1506A        |  | 1360           | 415 | 1200          | 366 | 940             | 286 | 810                  | 247 | 670                  | 204 | 270        | 82  |
| 9231         |  | 1430           | 436 | 1270          | 387 | 1000            | 305 | 850                  | 259 | 680                  | 207 | 260        | 79  |
| 9141         |  | 1430           | 436 | 1270          | 387 | 1000            | 305 | 850                  | 259 | 680                  | 207 | 260        | 79  |
| 8281         |  | 1430           | 436 | 1270          | 387 | 1000            | 305 | 860                  | 262 | 700                  | 213 | 260        | 79  |
| 8281B        |  | 1430           | 436 | 1270          | 387 | 1000            | 305 | 850                  | 259 | 680                  | 207 | 250        | 76  |
| 8281F        |  | 1250           | 381 | 1100          | 335 | 860             | 262 | 730                  | 222 | 590                  | 180 | 240        | 73  |
| 88281        |  | 1300           | 396 | 1150          | 351 | 910             | 277 | 770                  | 235 | 600                  | 183 | 200        | 61  |
| 1694A-7710A  |  | 1760           | 536 | 1620          | 494 | 1360            | 415 | 1180                 | 360 | 970                  | 296 | 370        | 113 |
| 1695A        |  | 1670           | 509 | 1520          | 463 | 1250            | 381 | 1080                 | 329 | 880                  | 268 | 310        | 94  |
| 7855A        |  | 2220           | 677 | 2000          | 610 | 1670            | 509 | 1460                 | 445 | 1210                 | 369 | 470        | 143 |
| 7731A        |  | 2730           | 832 | 2460          | 750 | 2000            | 610 | 1740                 | 530 | 1430                 | 436 | 540        | 165 |
| 7732A        |  | 2420           | 738 | 2140          | 652 | 1690            | 515 | 1440                 | 439 | 1150                 | 351 | 430        | 131 |

\*Values proposed at time of printing.

The serial digital interconnect standards are designed to operate where the signal loss at 1/2 the clock frequency does not exceed the approximate loss values listed below. The maximum length values shown are based on typical attenuation values for the cables listed and the following criteria:

Maximum length = 30 dB loss at 1/2 the clock frequency: SMPTE 259M, PAL, Widescreen.

Maximum length = 20 dB loss at 1/2 the clock frequency: SMPTE 292M.

The bit error rate (BER) can vary dramatically as the calculated distances are approached. BER is dependent on receiver design and the losses of the actual coax used. Distribution and routing equipment manufacturers should be contacted to verify their maximum recommended transmission.

**Return Loss Headroom** — Refer to graph on page 12.70.



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Triax is usually either RG-59/U or RG-11/U. The second shield makes the OD of either type larger, so size and flexibility can be an issue. RG-11 styles have lower losses for long runs while RG-59 styles are smaller and generally more flexible. Part numbers 9267 and 9232 are designed with Hypalon® jackets for applications requiring even greater flexibility and ruggedness.

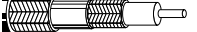
## Video Triax Cable

RG-59/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**20 AWG Solid .032" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)** (continued)

| Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Violet or Black.) Polyethylene Insulation between Braids |       |      |       |      |      |          |      |      |               |      |      |    |     |      |      |      |      |      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|------|------|----------|------|------|---------------|------|------|----|-----|------|------|------|------|------|--|
| 80°C                                                                                                                                    | 1856A | 500  | 152.4 | 41.0 | 18.6 | 20 AWG   | .145 | 3.68 | (2) BC Braids | .360 | 9.14 | 75 | 83% | 16.2 | 53.1 | 1    | .3   | 1.0  |  |
|                                                         |       | 1000 | 304.8 | 83.0 | 37.7 | (solid)  |      |      | 95%           |      |      |    |     |      |      | 3.6  | .6   | 1.8  |  |
|                                                                                                                                         |       |      |       |      |      | .032"    |      |      | Coverage      |      |      |    |     |      |      | 10   | .8   | 2.7  |  |
|                                                                                                                                         |       |      |       |      |      | BC       |      |      | Inner:        |      |      |    |     |      |      | 71.5 | 2.2  | 7.2  |  |
|                                                                                                                                         |       |      |       |      |      | 10.6Ω/M' |      |      | 2.5Ω/M'       |      |      |    |     |      |      | 135  | 3.0  | 9.8  |  |
|                                                                                                                                         |       |      |       |      |      | 34.8Ω/km |      |      | 8.2Ω/km       |      |      |    |     |      |      | 270  | 4.2  | 13.8 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      | Outer:        |      |      |    |     |      |      | 360  | 4.8  | 15.7 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      | 1.6Ω/M'       |      |      |    |     |      |      | 540  | 5.9  | 19.4 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      | 5.3Ω/km       |      |      |    |     |      |      | 720  | 6.9  | 22.6 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |               |      |      |    |     |      |      | 750  | 7.1  | 23.3 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |               |      |      |    |     |      |      | 1000 | 8.8  | 28.9 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |               |      |      |    |     |      |      | 1500 | 12.0 | 39.4 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |               |      |      |    |     |      |      | 2250 | 16.4 | 53.8 |  |
|                                                                                                                                         |       |      |       |      |      |          |      |      |               |      |      |    |     |      | 3000 | 20.4 | 66.9 |      |  |

| Gas-injected Foam HDPE Insulation • Belflex Jacket (Red, Yellow, Green, Blue, Violet or Black.) PVC Insulation between Braids |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|------|-------|------|------|----------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------|------|------|----|-----|------|------|------|------|------|
| 75°C                                                                                                                          | 1856B<br>new | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 1000 | 304.8 | 86.0 | 39.1 | 20 AWG<br>(solid)<br>.032"<br>BC<br>10.1Ω/M'<br>33.1Ω/km | .145 | 3.68 | (2) BC Braids<br>95%<br>Coverage<br>Inner:<br>2.5Ω/M'<br>8.2Ω/km<br>Outer:<br>1.6Ω/M'<br>5.2Ω/km | .360 | 9.14 | 75 | 83% | 16.2 | 53.1 | 1    | .3   | 1.0  |
|                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 3.6  | .6   | 1.8  |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 10   | .8   | 2.7  |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 71.5 | 2.2  | 7.2  |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 135  | 3.0  | 9.8  |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 270  | 4.2  | 13.8 |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      |      | 360  | 4.8  |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 540  | 5.9  | 19.4 |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 720  | 6.9  | 22.6 |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 750  | 7.1  | 23.3 |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 1000 | 8.8  | 28.9 |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 1500 | 12.0 | 39.4 |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 2250 | 16.4 | 53.8 |
|                                                                                                                               |              |                                |      |       |      |      |                                                          |      |      |                                                                                                  |      |      |    |     |      |      | 3000 | 20.4 | 66.9 |

| Gas-injected Foam HDPE Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids) |      |      |       |      |      |          |      |      |               |      |      |    |     |      |      |      |      |      |  |  |
|---------------------------------------------------------------------------------------------------------------------------|------|------|-------|------|------|----------|------|------|---------------|------|------|----|-----|------|------|------|------|------|--|--|
| 80°C                                                                                                                      | 9267 | 500  | 152.4 | 39.5 | 18.0 | 20 AWG   | .145 | 3.68 | (2) BC Braids | .360 | 9.14 | 75 | 82% | 16.3 | 53.5 | 1    | .3   | 1.0  |  |  |
| VW-1                                                                                                                      |      | 1000 | 304.8 | 77.0 | 35.0 | (solid)  |      |      | 95%           |      |      |    |     |      |      | 3.6  | .6   | 2.0  |  |  |
|                                         |      |      |       |      |      | .032"    |      |      | Coverage      |      |      |    |     |      |      | 10   | .9   | 3.0  |  |  |
|                                                                                                                           |      |      |       |      |      | BC       |      |      | Inner:        |      |      |    |     |      |      | 71.5 | 2.1  | 6.9  |  |  |
|                                                                                                                           |      |      |       |      |      | 10.0Ω/M' |      |      | 2.5Ω/M'       |      |      |    |     |      |      | 135  | 2.9  | 9.5  |  |  |
|                                                                                                                           |      |      |       |      |      | 32.8Ω/km |      |      | 8.3Ω/km       |      |      |    |     |      |      | 270  | 4.2  | 13.8 |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      | Outer:        |      |      |    |     |      |      | 360  | 4.8  | 15.7 |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      | 2.6Ω/M'       |      |      |    |     |      |      | 540  | 6.0  | 19.7 |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      | 8.6Ω/km       |      |      |    |     |      |      | 720  | 6.7  | 22.0 |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      |               |      |      |    |     |      | 750  | 6.9  | 22.6 |      |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      |               |      |      |    |     |      | 1000 | 8.3  | 27.2 |      |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      |               |      |      |    |     |      | 1500 | 10.5 | 34.4 |      |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      |               |      |      |    |     |      | 2250 | 13.4 | 44.0 |      |  |  |
|                                                                                                                           |      |      |       |      |      |          |      |      |               |      |      |    |     |      | 3000 | 15.9 | 52.2 |      |  |  |
| Suitable for Outdoor and Direct Burial applications.                                                                      |      |      |       |      |      |          |      |      |               |      |      |    |     |      |      |      |      |      |  |  |

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of cables not listed.

Hypalon is a DuPont trademark.



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# Video Triax Cable

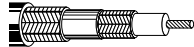
## RG-11/U Type



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 15 AWG Stranded (19x27) .064" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)

| Foam Polyethylene Insulation • Belflex® Jacket (Red, Yellow, Green, Blue, Violet or Black.) Polyethylene Insulation between Braids |       |      |       |       |      |         |      |      |               |      |       |                                      |     |      |      |      |      |      |      |
|------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|-------|------|---------|------|------|---------------|------|-------|--------------------------------------|-----|------|------|------|------|------|------|
| <div>High-Flex<br/>80°C</div> <div></div>         | 1858A | 500  | 152.4 | 81.0  | 36.8 | 15 AWG  | .312 | 7.92 | (2) BC Braids | .520 | 13.20 | 75                                   | 78% | 17.3 | 56.8 | 1    | .1   | .3   |      |
|                                                                                                                                    |       | 1000 | 304.8 | 158.0 | 71.8 | (19x27) |      |      | 95%           |      |       |                                      |     |      |      |      | 3.6  | .3   | 1.0  |
|                                                                                                                                    |       |      |       |       |      | .064"   |      |      | Coverage      |      |       |                                      |     |      |      |      | 10   | .5   | 1.6  |
|                                                                                                                                    |       |      |       |       |      | BC      |      |      | Inner:        |      |       |                                      |     |      |      |      | 71.5 | 1.2  | 3.9  |
|                                                                                                                                    |       |      |       |       |      | 3.0Ω/M' |      |      | 1.6Ω/M'       |      |       |                                      |     |      |      |      | 135  | 1.8  | 5.9  |
|                                                                                                                                    |       |      |       |       |      | 9.8Ω/km |      |      | 5.2Ω/km       |      |       | 100% Sweep tested. 5 MHz to 850 MHz. |     |      |      |      | 270  | 2.6  | 8.5  |
|                                                                                                                                    |       |      |       |       |      |         |      |      | Outer:        |      |       |                                      |     |      |      |      | 360  | 3.1  | 10.2 |
|                                                                                                                                    |       |      |       |       |      |         |      |      | 1.4Ω/M'       |      |       |                                      |     |      |      |      | 540  | 3.9  | 12.8 |
|                                                                                                                                    |       |      |       |       |      |         |      |      | 4.6Ω/km       |      |       |                                      |     |      |      |      | 720  | 4.7  | 15.4 |
|                                                                                                                                    |       |      |       |       |      |         |      |      |               |      |       |                                      |     |      |      |      | 750  | 4.8  | 15.7 |
|                                                                                                                                    |       |      |       |       |      |         |      |      |               |      |       |                                      |     |      |      | 1000 | 5.7  | 18.7 |      |

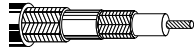


| Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket (Fluorocopolymer Insulation between Braids) |                                                                                   |       |         |      |       |       |      |         |      |      |               |                                      |       |    |     |      |      |      |     |      |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|---------|------|-------|-------|------|---------|------|------|---------------|--------------------------------------|-------|----|-----|------|------|------|-----|------|
| 125°C                                                                                                   |  | 1859A | NEC:    | 500  | 152.4 | 66.5  | 30.2 | 15 AWG  | .285 | 7.24 | (2) BC Braids | .406                                 | 10.30 | 75 | 80% | 16.5 | 54.1 | 1    | .1  | .3   |
|                                                                                                         |                                                                                   |       | CMP     | 1000 | 304.8 | 134.0 | 60.9 | (19x27) |      |      | 95%           |                                      |       |    |     |      |      | 3.6  | .2  | .7   |
|                                                                                                         |                                                                                   |       | CEC:    |      |       |       |      | .064"   |      |      | Coverage      |                                      |       |    |     |      |      | 10   | .5  | 1.6  |
|                                                                                                         |                                                                                   |       | CMP FT6 |      |       |       |      | BC      |      |      | Inner:        |                                      |       |    |     |      |      | 71.5 | 1.3 | 4.3  |
|                                                                                                         |                                                                                   |       |         |      |       |       |      | 3.0Ω/M' |      |      | 1.4Ω/M'       |                                      |       |    |     |      |      | 135  | 1.9 | 6.2  |
|                                                                                                         |                                                                                   |       |         |      |       |       |      | 9.8Ω/km |      |      | 4.6Ω/km       |                                      |       |    |     |      |      | 270  | 3.0 | 9.8  |
|                                                                                                         |                                                                                   |       |         |      |       |       |      |         |      |      | Outer:        |                                      |       |    |     |      |      | 360  | 3.6 | 11.8 |
|                                                                                                         |                                                                                   |       |         |      |       |       |      |         |      |      | 1.4Ω/M'       |                                      |       |    |     |      |      | 540  | 4.5 | 14.8 |
|                                                                                                         |                                                                                   |       |         |      |       |       |      |         |      |      | 4.6Ω/km       |                                      |       |    |     |      |      | 720  | 5.4 | 17.7 |
|                                                                                                         |                                                                                   |       |         |      |       |       |      |         |      |      |               |                                      |       |    |     |      |      | 750  | 5.6 | 18.4 |
| Suitable for Outdoor and Direct Burial applications.                                                    |                                                                                   |       |         |      |       |       |      |         |      |      |               |                                      |       |    |     |      |      | 1000 | 6.6 | 21.6 |
|                                                                                                         |                                                                                   |       |         |      |       |       |      |         |      |      |               | 100% Sweep tested. 5 MHz to 850 MHz. |       |    |     |      |      |      |     |      |

Suitable for Outdoor and Direct Burial applications.

### 15 AWG Stranded (19x27) .064" Bare Copper • Two Bare Copper Braids (90% Shield Coverage)

| Foam Polyethylene Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids) |      |      |      |       |       |      |         |      |      |               |      |       |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------------------|------|------|------|-------|-------|------|---------|------|------|---------------|------|-------|----|-----|------|------|------|------|------|
| UL AWM                                                                                    | 9192 | NEC: | 1000 | 304.8 | 150.0 | 68.2 | 15 AWG  | .312 | 7.92 | (2) BC Braids | .520 | 13.20 | 75 | 78% | 17.3 | 56.8 | 1    | .1   | .3   |
| Style 1641                                                                                |      | CL2X |      |       |       |      | (19x27) |      |      | 90%           |      |       |    |     |      |      | 3.6  | .3   | 1.0  |
| (30V 80°C)                                                                                |      |      |      |       |       |      | .064"   |      |      | Coverage      |      |       |    |     |      |      | 10   | .5   | 1.6  |
| VW-1                                                                                      |      |      |      |       |       |      | BC      |      |      | Inner:        |      |       |    |     |      |      | 71.5 | 1.2  | 3.9  |
|                                                                                           |      |      |      |       |       |      | 3.0Ω/M' |      |      | 1.6Ω/M'       |      |       |    |     |      |      | 135  | 1.8  | 5.9  |
|                                                                                           |      |      |      |       |       |      | 9.8Ω/km |      |      | 5.2Ω/km       |      |       |    |     |      |      | 270  | 2.6  | 8.5  |
|                                                                                           |      |      |      |       |       |      |         |      |      | Outer:        |      |       |    |     |      |      | 360  | 3.1  | 10.2 |
|                                                                                           |      |      |      |       |       |      |         |      |      | 1.6Ω/M'       |      |       |    |     |      |      | 540  | 3.9  | 12.8 |
|                                                                                           |      |      |      |       |       |      |         |      |      | 5.2Ω/km       |      |       |    |     |      |      | 720  | 4.7  | 15.4 |
|                                                                                           |      |      |      |       |       |      |         |      |      |               |      |       |    |     |      |      | 750  | 4.8  | 15.7 |
|                                                                                           |      |      |      |       |       |      |         |      |      |               |      |       |    |     |      | 1000 | 5.7  | 18.7 |      |



| Foam Polyethylene Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids) |      |      |       |       |      |         |      |      |               |      |       |    |     |      |      |      |     |      |  |
|----------------------------------------------------------------------------------------------------------------------|------|------|-------|-------|------|---------|------|------|---------------|------|-------|----|-----|------|------|------|-----|------|--|
| UL AWM                                                                                                               | 9232 | 500  | 152.4 | 42.5  | 19.3 | 15 AWG  | .312 | 7.92 | (2) BC Braids | .520 | 13.20 | 75 | 78% | 17.3 | 56.8 | 1    | .1  | .3   |  |
| Style 1641                                                                                                           |      | 1000 | 304.8 | 145.0 | 65.9 | (19x27) |      |      | 90%           |      |       |    |     |      |      | 3.6  | .3  | 1.0  |  |
| (30V 60°C)                                                                                                           |      |      |       |       |      | .064"   |      |      | Coverage      |      |       |    |     |      |      | 10   | .5  | 1.6  |  |
| VW-1                                                                                                                 |      |      |       |       |      | BC      |      |      | Inner:        |      |       |    |     |      |      | 71.5 | 1.2 | 3.9  |  |
|                                                                                                                      |      |      |       |       |      | 3.0Ω/M' |      |      | 1.6Ω/M'       |      |       |    |     |      |      | 135  | 1.8 | 5.9  |  |
|                                                                                                                      |      |      |       |       |      | 9.8Ω/km |      |      | 5.2Ω/km       |      |       |    |     |      |      | 270  | 2.6 | 8.5  |  |
|                                                                                                                      |      |      |       |       |      |         |      |      | Outer:        |      |       |    |     |      |      | 360  | 3.1 | 10.2 |  |
|                                                                                                                      |      |      |       |       |      |         |      |      | 1.7Ω/M'       |      |       |    |     |      |      | 540  | 3.9 | 12.8 |  |
|                                                                                                                      |      |      |       |       |      |         |      |      | 5.2Ω/km       |      |       |    |     |      |      | 720  | 4.7 | 15.4 |  |
|                                                                                                                      |      |      |       |       |      |         |      |      |               |      |       |    |     |      |      | 750  | 4.8 | 15.7 |  |
|                                                                                                                      |      |      |       |       |      |         |      |      |               |      |       |    |     |      |      | 1000 | 5.7 | 18.7 |  |



Suitable for Outdoor and Direct Burial applications.

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of cables not listed.

Hypalon is a DuPont trademark.

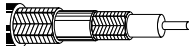
## Video Triax Cable

RG-11/U Type

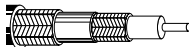


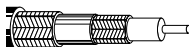
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**14 AWG Solid .064" Bare Copper • Two Bare Copper Braids (95% Shield Coverage)**

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids) |                                                                                                 |      |       |       |       |         |      |      |               |      |       |    |     |      |      |      |      |      |  |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------|-------|-------|-------|---------|------|------|---------------|------|-------|----|-----|------|------|------|------|------|--|
| 80°C                                                                                                   | <b>8233</b><br> | 500  | 152.4 | 63.0  | 28.6  | 14 AWG  | .285 | 7.24 | (2) BC Braids | .475 | 12.07 | 75 | 84% | 16.1 | 52.8 | 1    | .2   | .7   |  |
|                                                                                                        |                                                                                                 | 1000 | 304.8 | 122.0 | 55.5  | (solid) |      |      | 95%           |      |       |    |     |      |      | 3.6  | .3   | 1.0  |  |
|                                                                                                        |                                                                                                 | 2000 | 609.6 | 240.0 | 109.1 | .064"   |      |      | Coverage      |      |       |    |     |      |      | 10   | .4   | 1.3  |  |
|                                                                                                        |                                                                                                 |      |       |       |       | BC      |      |      | Inner:        |      |       |    |     |      |      | 71.5 | 1.1  | 3.6  |  |
|                                                                                                        |                                                                                                 |      |       |       |       | 2.5Ω/M' |      |      | 1.6Ω/M'       |      |       |    |     |      |      | 135  | 1.5  | 4.9  |  |
|                                                                                                        |                                                                                                 |      |       |       |       | 8.2Ω/km |      |      | 5.2Ω/km       |      |       |    |     |      |      | 270  | 2.3  | 7.5  |  |
|                                                                                                        |                                                                                                 |      |       |       |       |         |      |      | Outer:        |      |       |    |     |      |      | 360  | 2.7  | 8.9  |  |
|                                                                                                        |                                                                                                 |      |       |       |       |         |      |      | 1.4Ω/M'       |      |       |    |     |      |      | 540  | 3.5  | 11.5 |  |
|                                                                                                        |                                                                                                 |      |       |       |       |         |      |      | 4.6Ω/km       |      |       |    |     |      |      | 720  | 4.2  | 13.8 |  |
|                                                                                                        |                                                                                                 |      |       |       |       |         |      |      |               |      |       |    |     |      |      | 1000 | 5.2  | 17.1 |  |
|                                                                                                        |                                                                                                 |      |       |       |       |         |      |      |               |      |       |    |     |      | 1500 | 7.1  | 23.3 |      |  |
|                                                                                                        |                                                                                                 |      |       |       |       |         |      |      |               |      |       |    |     |      | 2250 | 9.6  | 31.5 |      |  |
|                                                                                                        |                                                                                                 |      |       |       |       |         |      |      |               |      |       |    |     |      | 3000 | 12.0 | 39.4 |      |  |
| Suitable for Outdoor and Direct Burial applications.                                                   |                                                                                                 |      |       |       |       |         |      |      |               |      |       |    |     |      |      |      |      |      |  |

Suitable for Outdoor and Direct Burial applications.

| Gas-injected Foam HDPE Insulation • Black PVC Jacket (PVC Insulation between Braids) |                                                                                                  |         |      |        |       |       |         |      |      |               |      |       |    |     |      |                                    |      |      |      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------|------|--------|-------|-------|---------|------|------|---------------|------|-------|----|-----|------|------------------------------------|------|------|------|
| 80°C                                                                                 | <b>8233A</b><br> | NEC:    | 1000 | 304.8  | 142.0 | 64.5  | 14 AWG  | .285 | 7.24 | (2) BC Braids | .475 | 12.07 | 75 | 84% | 16.1 | 52.8                               | 1    | .2   | .7   |
|                                                                                      |                                                                                                  | CMR     | 2000 | 609.6  | 240.0 | 109.1 | (solid) |      |      | 95%           |      |       |    |     |      |                                    | 3.6  | .3   | 1.0  |
|                                                                                      |                                                                                                  | CEC:    | 4000 | 1219.2 | 574.0 | 260.9 | .064"   |      |      | Coverage      |      |       |    |     |      |                                    | 10   | .4   | 1.3  |
|                                                                                      |                                                                                                  | CMG FT4 |      |        |       |       | BC      |      |      | Inner:        |      |       |    |     |      |                                    | 71.5 | 1.1  | 3.6  |
|                                                                                      |                                                                                                  |         |      |        |       |       | 2.5Ω/M' |      |      | 1.6Ω/M'       |      |       |    |     |      |                                    | 135  | 1.5  | 4.9  |
|                                                                                      |                                                                                                  |         |      |        |       |       | 8.2Ω/km |      |      | 5.2Ω/km       |      |       |    |     |      |                                    | 270  | 2.3  | 7.5  |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      | Outer:        |      |       |    |     |      |                                    | 360  | 2.7  | 8.9  |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      | 1.4Ω/M'       |      |       |    |     |      |                                    | 540  | 3.5  | 11.5 |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      | 4.6Ω/km       |      |       |    |     |      |                                    | 720  | 4.2  | 13.8 |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      |               |      |       |    |     |      |                                    | 750  | 4.3  | 14.1 |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 1000                               | 5.2  | 17.1 |      |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 1500                               | 7.1  | 23.3 |      |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 2250                               | 9.6  | 31.5 |      |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 3000                               | 12.0 | 39.4 |      |
|                                                                                      |                                                                                                  |         |      |        |       |       |         |      |      |               |      |       |    |     |      | 100% Sweep tested. 5 MHz to 3 GHz. |      |      |      |

| Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket (PE Insulation between Braids; Flooding Compound on Outer Braid) |                            |                                                                                    |      |       |       |       |         |      |      |               |      |       |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------|------|-------|-------|-------|---------|------|------|---------------|------|-------|----|-----|------|------|------|------|------|
| Flooded<br>80°C                                                                                                                | <b>7803A</b><br><b>new</b> |  | 500  | 152.4 | 64.0  | 29.1  | 14 AWG  | .285 | 7.24 | (2) BC Braids | .475 | 12.07 | 75 | 84% | 16.1 | 52.8 | 1    | .2   | .7   |
|                                                                                                                                |                            |                                                                                    | 1000 | 304.8 | 123.0 | 55.9  | (solid) |      |      | 95%           |      |       |    |     |      |      | 3.6  | .3   | 1.0  |
|                                                                                                                                |                            |                                                                                    | 3000 | 914.4 | 381.0 | 173.2 | .064"   |      |      | Coverage      |      |       |    |     |      |      | 10   | .4   | 1.3  |
|                                                                                                                                |                            |                                                                                    |      |       |       |       | BC      |      |      | Inner:        |      |       |    |     |      |      | 71.5 | 1.1  | 3.6  |
|                                                                                                                                |                            |                                                                                    |      |       |       |       | 2.5Ω/M' |      |      | 1.6Ω/M'       |      |       |    |     |      |      | 135  | 1.5  | 4.9  |
|                                                                                                                                |                            |                                                                                    |      |       |       |       | 8.2Ω/km |      |      | 5.2Ω/km       |      |       |    |     |      |      | 270  | 2.3  | 7.5  |
|                                                                                                                                |                            |                                                                                    |      |       |       |       |         |      |      | Outer:        |      |       |    |     |      |      | 360  | 2.7  | 8.9  |
|                                                                                                                                |                            |                                                                                    |      |       |       |       |         |      |      | 1.4Ω/M'       |      |       |    |     |      |      | 540  | 3.5  | 11.5 |
|                                                                                                                                |                            |                                                                                    |      |       |       |       |         |      |      | 4.6Ω/km       |      |       |    |     |      |      | 720  | 4.2  | 13.8 |
|                                                                                                                                |                            |                                                                                    |      |       |       |       |         |      |      |               |      |       |    |     |      |      | 1000 | 5.2  | 17.1 |
| 100% Sweep tested. 5 MHz to 3 GHz.                                                                                             |                            |                                                                                    |      |       |       |       |         |      |      |               |      |       |    |     |      |      | 1500 | 7.1  | 23.3 |
|                                                                                                                                |                            |                                                                                    |      |       |       |       |         |      |      |               |      |       |    |     |      |      | 2250 | 9.6  | 31.5 |
|                                                                                                                                |                            |                                                                                    |      |       |       |       |         |      |      |               |      |       |    |     |      |      | 3000 | 12.0 | 39.4 |
| Suitable for Outdoor and Direct Burial applications.                                                                           |                            |                                                                                    |      |       |       |       |         |      |      |               |      |       |    |     |      |      |      |      |      |

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • PE = Polyethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

# Audio and Video Composite Camera Cable

## Overview



### Audio and Video Composite Camera Cables

Audio/video composite cables are used in camera cable applications requiring one or more coaxes for video and one or more shielded pairs for audio and power.

Applications for such cables include interconnect of remote field cameras for Electronic News Gathering (ENG), Electronic Field Production (EFP) and Closed Circuit Television (CCTV).

ENG cameras are used in shooting on-site News reports which may be live or recorded. EFP applications involve on-site recording of videos produced for companies or private enterprises (i.e., advertisement or training films).

The three most common audio/video configurations are one coax-one pair, one coax-three pair and two coax-three pair designs.

#### One Coax-One Pair

The most common use for cable of this design is the interconnection of cameras requiring one coax for the video connection to the camera and one pair for audio.

The audio pair may be connected either to the camera itself, to an audio junction box or directly into a microphone.

Another common application for this design is the connection of CCTV surveillance cameras where the coax is used for the video connection and the twisted pair to power the camera.

#### One Coax-Three Pair

This cable is used in camera applications requiring a coaxial video feed, one audio pair for a MIC hook-up, and two audio pairs for the Interrupted Feedback (IFB) connections to the camera person and talent (anchor). IFB is the audio feed(s) to the talent and camera person's headset which enables them to listen and receive information and directions from the news director as they make the recording.

#### Two Coax-Three Pair

Camera applications utilizing this design again utilize one coax for the camera video connection and three audio pairs for the MIC and IFB hook-ups. The additional coax can be used to provide video to a portable TV monitor so the talent can view him or herself as the report is being recorded.

### HDTV Fiber/Copper Composite Cable

Designed specifically for high-definition cameras, these composite cables can multiplex audio and video signals and power. The cables meet all the requirements of the SMPTE 311 standard developed by the Society of Motion Picture and Television Engineers (SMPTE). They are also compatible with industry standard SMPTE 304M connectors.



**Audio and Video Composite Camera Cable**

SMPTE 311M HDTV Cables

Single-mode Fiber with Copper Conductors



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor (stranding)<br>Nom. DCR | Nominal Core OD |    | Shielding Materials<br>Nom. DCR | Nominal OD |    | Nominal Optical Attenuation (@1310nm) |       |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------------------------|-----------------|----|---------------------------------|------------|----|---------------------------------------|-------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                   | Inch            | mm |                                 | Inch       | mm | dB/1000 Ft.                           | dB/km |

**4 Power Conductors • SM Fiber w/ 24 and 20 AWG Stranded (7x32 and 19x32) Tinned Copper • Overall 95% TC Braid Shield****PVC Insulation • Black Belflex® Jacket**

|  |                            |         |        |       |       |      |                                          |      |      |                    |      |      |     |     |
|--|----------------------------|---------|--------|-------|-------|------|------------------------------------------|------|------|--------------------|------|------|-----|-----|
|  | <b>7804R</b><br><b>new</b> | NEC:    | 328    | 100.0 | 33.5  | 15.2 | (2) Fibers:                              | .079 | 2.00 | 36 AWG             | .362 | 9.20 | .14 | .45 |
|  |                            | CMR     | 500    | 152.4 | 50.0  | 22.7 | SM/125μ/900μ                             |      |      | TC Braid           |      |      |     |     |
|  |                            | CEC:    | 1000   | 304.8 | 98.0  | 44.5 | (core/clad/buffer)                       |      |      | 95% Shield         |      |      |     |     |
|  |                            | CMG FT4 | 1640   | 500.0 | 155.8 | 70.8 | (2) Cond.:<br>24 AWG<br>(7x32)<br>.024"  | .050 | 1.27 | Coverage           |      |      |     |     |
|  |                            | 3280    | 1000.0 | 321.4 | 146.1 |      | Tinned Copper<br>23.3Ω/M'<br>76.4Ω/km    |      |      | 2.9Ω/M'<br>9.5Ω/km |      |      |     |     |
|  |                            |         |        |       |       |      | (4) Cond.:<br>20 AWG<br>(19x32)<br>.037" | .063 | 1.60 |                    |      |      |     |     |
|  |                            |         |        |       |       |      | Tinned Copper<br>8.8Ω/M'<br>28.9Ω/km     |      |      |                    |      |      |     |     |

Plenum version and other conductor counts/diameters available by special order.

**2 Power Conductors • SM Fiber w/ 24 and 16 AWG Stranded (7x32 and 65x34) Tinned Copper • Overall 95% TC Braid Shield****PVC Insulation • Black Belflex® Jacket**

|  |                            |         |        |       |       |      |                                          |      |      |                    |      |      |     |     |
|--|----------------------------|---------|--------|-------|-------|------|------------------------------------------|------|------|--------------------|------|------|-----|-----|
|  | <b>7804C</b><br><b>new</b> | NEC:    | 328    | 100.0 | 32.0  | 14.5 | (2) Breakout                             | .079 | 2.00 | 38 AWG             | .362 | 9.20 | .14 | .45 |
|  |                            | CMR     | 500    | 152.4 | 46.0  | 20.9 | Fibers:                                  |      |      | TC Braid           |      |      |     |     |
|  |                            | CEC:    | 1000   | 304.8 | 87.0  | 39.5 | SM/125μ/900μ                             |      |      | 95% Shield         |      |      |     |     |
|  |                            | CMG FT4 | 1640   | 500.0 | 140.0 | 63.6 | (core/clad/buffer)                       |      |      | Coverage           |      |      |     |     |
|  |                            | 3280    | 1000.0 | 288.0 | 130.9 |      | (2) Cond.:<br>24 AWG<br>(7x32)<br>.024"  | .050 | 1.27 | 2.8Ω/M'<br>9.2Ω/km |      |      |     |     |
|  |                            |         |        |       |       |      | Tinned Copper<br>23.3Ω/M'<br>76.4Ω/km    |      |      |                    |      |      |     |     |
|  |                            |         |        |       |       |      | (2) Cond.:<br>16 AWG<br>(65x34)<br>.037" | .093 | 2.36 |                    |      |      |     |     |
|  |                            |         |        |       |       |      | Tinned Copper<br>4.3Ω/M'<br>14.1Ω/km     |      |      |                    |      |      |     |     |

Plenum version and other conductor counts/diameters available by special order.

DCR = DC Resistance • SM = Single-mode • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

# Audio and Video Composite Camera Cable

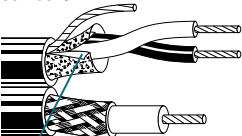
ENG, EFP and CCTV Cables

RG-59/U Type Coax with Shielded Twisted Pair(s)

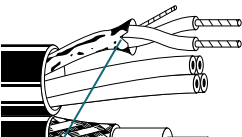


| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**22 AWG Stranded (7x30) Coax with Bare Copper Braid Shield (95% Coverage) • (1) Twisted Pair with 100% Beldfoil® Shield**

| Foam Polyethylene (Coax) and PVC (Pairs) Insulation • Black PVC Jacket            |             |             |             |                |              |              |                                                                   |                          |              |                                                                                  |                   |                    |    |     |      |       |                           |                               |                                 |
|-----------------------------------------------------------------------------------|-------------|-------------|-------------|----------------|--------------|--------------|-------------------------------------------------------------------|--------------------------|--------------|----------------------------------------------------------------------------------|-------------------|--------------------|----|-----|------|-------|---------------------------|-------------------------------|---------------------------------|
| UL AWM<br>Style 20006<br>30V 60°C                                                 | <b>9265</b> | NEC:<br>CL2 | 500<br>1000 | 152.4<br>304.8 | 31.0<br>59.0 | 14.4<br>26.8 | (1) Coax:<br>22 AWG<br>(7x30)<br>.030" BC<br>15.0Ω/M'<br>49.2Ω/km | .146<br>Coax OD:<br>.242 | 3.71<br>6.15 | BC<br>Braid<br>95% Shield<br>Coverage<br>2.6Ω/M'<br>8.5Ω/km                      | .242<br>x<br>.470 | 6.15<br>x<br>11.94 | 75 | 78% | 17.3 | 56.8  | 1<br>5<br>10<br>50<br>100 | .3<br>.7<br>1.0<br>2.1<br>3.0 | 1.0<br>2.3<br>3.3<br>6.9<br>9.8 |
|  |             |             |             |                |              |              | (2) Cond:<br>22 AWG<br>(7x30)<br>.030" TC<br>15.0Ω/M'<br>49.2Ω/km | .054<br>Pair OD:<br>.112 | 1.37<br>2.84 | Pair:<br>Beldfoil<br>Shielded<br>100% Shield<br>Coverage<br>11.0Ω/M'<br>36.1Ω/km | —<br>—            | —<br>—             | 35 | 58% | 51.0 | 167.3 | —<br>—                    | —<br>—                        | —<br>—                          |
| Z-Fold®<br><br>Siamese Type Construction                                          |             |             |             |                |              |              |                                                                   |                          |              |                                                                                  |                   |                    |    |     |      |       |                           |                               |                                 |

**22 AWG Stranded (7x30) Coax with BC Braid Shield (95% Coverage) • (3) Twisted Pairs + Drain Wire Individually 100% Beldfoil Shielded**

| Foam Polyethylene (Coax) and PVC (Pairs) Insulation • Black PVC Jacket             |             |              |             |                |              |              |                                                                    |                          |              |                                                                                                       |                   |                    |    |     |      |       |                                  |                                      |                                         |
|------------------------------------------------------------------------------------|-------------|--------------|-------------|----------------|--------------|--------------|--------------------------------------------------------------------|--------------------------|--------------|-------------------------------------------------------------------------------------------------------|-------------------|--------------------|----|-----|------|-------|----------------------------------|--------------------------------------|-----------------------------------------|
| UL AWM<br>Style 20006<br>30V 60°C                                                  | <b>9165</b> | NEC:<br>CL2X | 500<br>1000 | 152.4<br>304.8 | 50.0<br>94.0 | 22.7<br>42.7 | (1) Coax:<br>22 AWG<br>(7x30)<br>.030" BC<br>15.0Ω/M'<br>49.2Ω/km  | .146<br>Coax OD:<br>.242 | 3.71<br>6.15 | BC<br>Braid<br>95% Shield<br>Coverage<br>2.6Ω/M'<br>8.5Ω/km                                           | .290<br>x<br>.561 | 7.37<br>x<br>14.25 | 75 | 78% | 17.3 | 56.8  | 1<br>5<br>10<br>50<br>100<br>400 | .3<br>.7<br>1.0<br>2.1<br>3.0<br>7.4 | 1.0<br>2.3<br>3.3<br>6.9<br>9.8<br>24.3 |
|  |             |              |             |                |              |              | (3) Pairs:<br>22 AWG<br>(7x30)<br>.030" TC<br>15.0Ω/M'<br>49.2Ω/km | .054<br>Pair OD:<br>.116 | 1.37<br>2.95 | Each Pair:<br>Individually<br>Beldfoil<br>Shielded<br>100% Shield<br>Coverage<br>11.0Ω/M'<br>36.1Ω/km | —<br>—            | —<br>—             | 35 | 58% | 51.0 | 167.3 | —<br>—                           | —<br>—                               | —<br>—                                  |
| Z-Fold®<br><br>Siamese Type Construction                                           |             |              |             |                |              |              |                                                                    |                          |              |                                                                                                       |                   |                    |    |     |      |       |                                  |                                      |                                         |

BC = Bare Copper • DCR = DC Resistance • EFP = Electronic Field Production • ENG = Electronic News Gathering • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

# Audio and Video Composite Camera Cable

ENG and EFP Cables

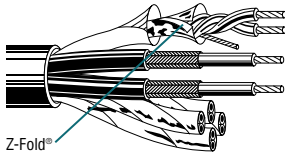
Multiple Coax with Shielded Twisted Pairs



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

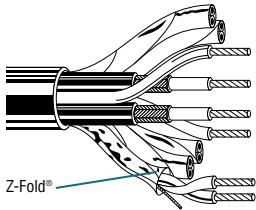
## 12-conductor EFP and ENG Camera Cable

| Foam Polyethylene (Coax) and Polypropylene (Pairs) Insulation • Overall Chrome Jacket |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      |     |      |      |
|---------------------------------------------------------------------------------------|------|--|------|-------|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------------------|------|-------|----|-----|------|------|-----|------|------|
| 75°C                                                                                  | 9170 |  | 1000 | 304.8 | 113.0 | 51.4 | (2) Coax:<br>25 AWG<br>(7x33)<br>.022" BC<br>31.2Ω/M'<br>102.0Ω/km<br>Black,<br>Black with<br>Hash Marks                                                  | .100 | 2.54 | Each Coax:<br>TC<br>Braid<br>93% Shield<br>Coverage<br>6.0Ω/M'<br>19.7Ω/km                                   | .490 | 12.45 | 75 | 78% | 17.3 | 56.8 | 1   | .4   | 1.3  |
| VW-1                                                                                  |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      | 10  | 1.5  | 4.9  |
|                                                                                       |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      | 50  | 3.8  | 12.5 |
|                                                                                       |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      | 100 | 5.6  | 18.4 |
|                                                                                       |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      | 300 | 10.6 | 34.8 |
|                                                                                       |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      | 500 | 13.8 | 45.3 |
|                                                                                       |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      |     |      |      |
|                                                                                       |      |  |      |       |       |      | (5) Pairs:<br>24 AWG<br>(7x32)<br>.024" TC<br>24.0Ω/M'<br>78.0Ω/km<br>Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue,<br>Black & Yellow | .044 | 1.12 | Each Pair:<br>Beldfoil®<br>Shielded<br>100% Shield<br>Coverage<br>with Drain<br>Wire<br>18.0Ω/M'<br>59.1Ω/km | —    | —     | —  | 66% | 27.0 | 88.6 | —   | —    | —    |
|                                                                                       |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |      |     |      |      |



## 14-conductor EFP and ENG Camera Cable

| Foam Polyethylene (Coax) and PVC (Pairs and Conductors) Insulation • Overall Chrome Jacket |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |       |     |     |      |
|--------------------------------------------------------------------------------------------|------|--|------|-------|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------------------------------------------------------------------------------------------------------------|------|-------|----|-----|------|-------|-----|-----|------|
| 75°C                                                                                       | 9171 |  | 500  | 152.4 | 97.5  | 44.3 | (2) Coax:<br>22 AWG<br>(7x30)<br>.030" BC<br>15.0Ω/M'<br>49.2Ω/km<br>Black,<br>Black with<br>Hash Marks                                                   | .146 | 3.71 | Each Coax:<br>BC<br>Braid<br>95% Shield<br>Coverage<br>2.5Ω/M'<br>8.6Ω/km                                    | .585 | 14.86 | 75 | 78% | 17.3 | 56.8  | 1   | .3  | 1.0  |
|                                                                                            |      |  | 1000 | 304.8 | 193.0 | 87.7 |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |       | 2   | .6  | 2.0  |
|                                                                                            |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |       | 10  | 1.0 | 3.3  |
|                                                                                            |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |       | 50  | 2.3 | 7.5  |
|                                                                                            |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |       | 100 | 3.2 | 10.5 |
|                                                                                            |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |       |     |     |      |
|                                                                                            |      |  |      |       |       |      | (5) Pairs:<br>22 AWG<br>(7x30)<br>.030" TC<br>15.0Ω/M'<br>49.2Ω/km<br>Black & Red,<br>Black & White,<br>Black & Green,<br>Black & Blue,<br>Black & Yellow | .054 | 1.37 | Each Pair:<br>Beldfoil®<br>Shielded<br>100% Shield<br>Coverage<br>with Drain<br>Wire<br>11.6Ω/M'<br>38.0Ω/km | —    | —     | —  | —   | 51.0 | 167.3 | —   | —   | —    |
|                                                                                            |      |  |      |       |       |      |                                                                                                                                                           |      |      |                                                                                                              |      |       |    |     |      |       |     |     |      |
|                                                                                            |      |  |      |       |       |      | (2) Cond:<br>16 AWG<br>(26x30)<br>.060" TC<br>4.0Ω/M'<br>13.1Ω/km<br>Black, White                                                                         | .092 | 2.34 |                                                                                                              | —    | —     | —  | —   | —    | —     | —   | —   | —    |



BC = Bare Copper • DCR = DC Resistance • EFP = Electronic Field Production • ENG = Electronic News Gathering • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of cables not listed.



# Composite Camera Cable

Cables for TV Cameras and CCTV



## TPE TV Camera Cable

28-Conductor

### Product Description

A 75 Ohm cable designed to remain flexible in cold weather. Recommended for transistorized TV cameras.

**(4) Conductors — 18 AWG:** (16x30) Tinned copper, PVC insulation, ring band stripe color coded. Beldfoil® shield wrapped around four conductors with stranded drain wire. Polyester tape over this shielded group.

**(21) Conductors — 22 AWG:** (7x30) Tinned copper, PVC insulation, cabled in three groups of seven, ring band stripe color coded. One group of seven has Beldfoil shield wrapped overall with drain wire. Polyester tape over this shielded group. Other two groups are unshielded.

**(3) 75 Ohm Coaxial Cables — 25 AWG:** (7x33) .021" (.53mm) bare copper-covered steel. Polyethylene insulation. Core OD .121" (3.07mm). Tinned copper braid shield (95% coverage) plus cotton braid. Coax OD .178" (4.52mm).

**Overall:** Tinned copper braid shield (85% coverage). Black thermoplastic elastomer jacket.

### Specifications

| Conductor                |                             |
|--------------------------|-----------------------------|
| (25) Conductors          | Tinned Copper               |
| (3) Coax                 | Bare Copper-covered Steel   |
| Insulation               |                             |
| Conductors               | PVC                         |
| Coax                     | PE                          |
| Shield                   |                             |
| (4) 18 AWG Conductors    | Beldfoil + PE Tape          |
| (7) 22 AWG Conductors    | Beldfoil + PE Tape          |
| (14) 22 AWG Conductors   | Unshielded                  |
| (3) Coax                 | 95% TC Braid + Cotton Braid |
| Overall                  | 85% Tinned Copper Braid     |
| Jacket                   |                             |
| Black TPE                |                             |
| Nominal OD               |                             |
| .730" (18.54mm)          |                             |
| Nominal Impedance (Coax) |                             |
| 75Ω                      |                             |
| Temperature Rating       |                             |
| 80°C                     |                             |

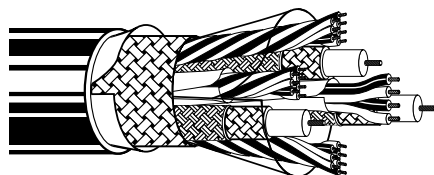
| Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    |
|----------|------------------------------|------------------|---|----------------------|----|
|          |                              | Ft.              | m | Lbs.                 | kg |

### TPE TV Camera

#### 28-conductor

|      |                   |       |       |       |
|------|-------------------|-------|-------|-------|
| 8286 | 500 <sup>†</sup>  | 152.4 | 164.0 | 74.5  |
|      | 1000 <sup>†</sup> | 304.8 | 327.0 | 148.6 |

<sup>†</sup> Spools are one piece, but length may vary -0% to +20% from length shown.



## Remote Control and Video Cable

13-Conductor

### Product Description

Recommended for use in installations requiring external drive signals, tallies, intercom, switching and video operations. UL recognized component (Style 2594). Passes VW-1 Vertical Wire Flame Test.

**(12) Conductors — 20 AWG:** (7x28) Tinned copper, PVC insulation, color coded.

**(1) 75 Ohm Coaxial — 22 AWG:** (7x30) .031" (.79mm) bare copper. Foam polyethylene insulation. Core OD .146" (3.71mm). Bare copper braid shield (95% coverage). Black PVC jacket. Coax OD .208" (5.28mm).

**Overall:** Tinned copper braid shield (80% coverage). Gray PVC jacket.

### Specifications

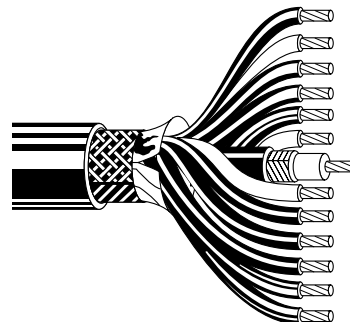
| Conductor                |                         |
|--------------------------|-------------------------|
| (12) Conductors          | Tinned Copper           |
| (1) Coax                 | Bare Copper             |
| Insulation               |                         |
| Conductors               | PVC                     |
| Coax                     | Foam PE                 |
| Shield                   |                         |
| (12) Conductors          | Unshielded              |
| (1) Coax                 | 95% Bare Copper Braid   |
| Overall                  | 80% Tinned Copper Braid |
| Jacket                   |                         |
| Gray PVC                 |                         |
| Nominal OD               |                         |
| .406" (11.70mm)          |                         |
| Nominal Impedance (Coax) |                         |
| 75Ω                      |                         |
| Temperature Rating       |                         |
| 60°C                     |                         |
| Approvals/Rating         |                         |
| UL AWM Style             | 2594                    |
| NEC Rating               | CL2X                    |

| Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    |
|----------|------------------------------|------------------|---|----------------------|----|
|          |                              | Ft.              | m | Lbs.                 | kg |

### Remote Control and Video

#### 13-conductor

|      |      |      |       |       |      |
|------|------|------|-------|-------|------|
| 9262 | NEC  | 100  | 30.5  | 16.7  | 7.6  |
|      | CL2X | 1000 | 304.8 | 161.0 | 73.2 |



## Composite Camera Cable

Cables for TV Cameras and CCTV



### Audio and Video Composite Cable

3 Paired, RG-59U Type

#### Product Description

Recommended for Electronic News Gathering (ENG) applications.

**(3) Pairs — 22 AWG:** (7x30) Tinned copper, polypropylene insulation. Nominal insulated conductor OD .046" (1.17 mm). Individually Beldfoil® shielded with drain wire. PVC jacket, OD .125" (3.20mm). Jacket colors: Brown, Red and Orange. Nominal impedance: 50Ω. Nominal velocity of propagation: 66%. Nominal capacitance: 32 pF/ft. (105 pF/m)\*, 58 pF/ft. (191 pF/m)\*\*.

**(2) 75 Ohm Coaxial Cables — 25 AWG:** (7x33) .021" (.53mm) Bare copper. Foam high density polyethylene insulation. Nominal Core OD .100" (2.54mm). Duofoil® plus tinned copper braid shield (95% coverage). PVC Jacket OD .160" (4.06mm). Jacket colors: Red and Black. Nominal Impedance: 75Ω. Nominal velocity of propagation: 78%. Nominal capacitance: 17.3 pF/ft. (56.8 pF/m). Nominal attenuation value for respective frequencies:

|         |                 |              |
|---------|-----------------|--------------|
| 1 MHz   | .5 db/100 ft.   | 1.5 db/100m  |
| 5 MHz   | 1.1 db/100 ft.  | 3.6 db/100m  |
| 10 MHz  | 1.5 db/100 ft.  | 4.9 db/100m  |
| 50 MHz  | 3.2 db/100 ft.  | 10.5 db/100m |
| 100 MHz | 4.3 db/100 ft.  | 14.1 db/100m |
| 300 MHz | 10.6 db/100 ft. | 34.8 db/100m |
| 500 MHz | 13.8 db/100 ft. | 45.3 db/100m |

**Overall:** Matte Black PVC jacket.

#### Specifications

|                                 |                                |                 |
|---------------------------------|--------------------------------|-----------------|
| <b>Conductor</b>                |                                |                 |
| (3) Pairs                       | Tinned Copper                  |                 |
| (2) Coax                        | Bare Copper                    |                 |
| <b>Insulation</b>               |                                |                 |
| Pairs                           | Polypropylene                  |                 |
| Coax                            | Foam High Density Polyethylene |                 |
| <b>Shield</b>                   |                                |                 |
| (3) 22 AWG Pairs                | Beldfoil                       |                 |
| (2) Coax                        | Tinned Copper Braid            |                 |
| <b>Jacket</b>                   |                                | Matte Black PVC |
| <b>Nominal OD</b>               |                                | .492" (12.50mm) |
| <b>Nominal Impedance (Coax)</b> |                                | 75Ω             |

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

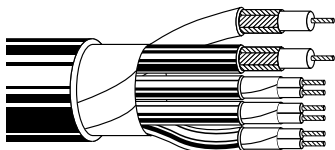
| Part No. | UL NEC/ C(UL) CEC Type | Standard Lengths |   | Standard Unit Weight |    |
|----------|------------------------|------------------|---|----------------------|----|
|          |                        | Ft.              | m | Lbs.                 | kg |

### Audio and Video Composite Cable

#### RG-59/U Type • 3 Paired

|       |                   |       |       |      |
|-------|-------------------|-------|-------|------|
| 1263B | 500 <sup>†</sup>  | 152.4 | 58.5  | 26.6 |
|       | 1000 <sup>†</sup> | 304.8 | 113.0 | 51.4 |

<sup>†</sup>Spools are one piece, but length may vary -0% to +20% from length shown.



### Camera Extension Cable

13-Conductor

#### Product Description

UL Recognized Component (Style 2497). Recommended for remote control, closed circuit and cue line applications.

Style 2497 is specified for the Dage 800 and other similar cameras. Passes VW-1 Vertical Wire Flame Test.

**(2) Conductors — 20 AWG:** (10x30) Tinned copper, PVC insulation, color coded, twisted pair, Mylar® tape wrapped.

**(9) Conductors — 22 AWG:** (7x30) Tinned copper, PVC insulation. (2) conductors cabled with Beldfoil shield. (2) conductors cabled, unshielded. (5) conductors unshielded.

**(2) 75 Ohm Coaxial Cables — 26 AWG:** (7x34) .019" (.48mm) bare copper-covered steel. Foam polyethylene insulation. Core OD .088" (2.24mm). Tinned copper braid shield (95% coverage). PVC jacket, color coded. Coax OD .142" (3.61mm).

**Overall:** Tinned copper braid shield (85% coverage). Chrome PVC jacket.

#### Specifications

|                                 |                           |                 |
|---------------------------------|---------------------------|-----------------|
| <b>Conductor</b>                |                           |                 |
| (11) Conductors                 | Tinned Copper             |                 |
| (2) Coax                        | Bare Copper-covered Steel |                 |
| <b>Insulation</b>               |                           |                 |
| Conductors                      | PVC                       |                 |
| Coax                            | Foam PE                   |                 |
| <b>Shield</b>                   |                           |                 |
| (7) Conductors                  | Unshielded                |                 |
| (2) Conductors                  | Beldfoil                  |                 |
| (2) Conductors                  | Mylar Tape                |                 |
| (2) Coax                        | 95% Tinned Copper Braid   |                 |
| Overall                         | 85% Tinned Copper Braid   |                 |
| <b>Jacket</b>                   |                           | Chrome PVC      |
| <b>Nominal OD</b>               |                           | .550" (13.97mm) |
| <b>Nominal Impedance (Coax)</b> |                           | 75Ω             |
| <b>Temperature Rating</b>       |                           | 60°C            |
| <b>Approvals/Rating</b>         |                           |                 |
| UL AWM Style                    | 2497                      |                 |
| NEC Rating                      | CL2X                      |                 |

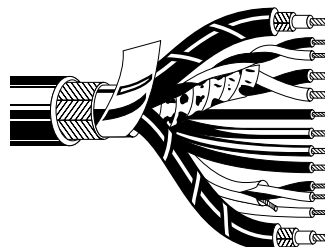
| Part No. | UL NEC/ C(UL) CEC Type | Standard Lengths |   | Standard Unit Weight |    |
|----------|------------------------|------------------|---|----------------------|----|
|          |                        | Ft.              | m | Lbs.                 | kg |

### Camera Extension Cable

#### 13-conductor

|      |      |                   |       |       |      |
|------|------|-------------------|-------|-------|------|
| 9254 | NEC  | 250 <sup>†</sup>  | 30.5  | 45.5  | 20.7 |
|      | CL2X | 1000 <sup>†</sup> | 304.8 | 177.0 | 80.5 |

<sup>†</sup>Spools are one piece, but length may vary -0% to +20% from length shown.



Mylar is a DuPont trademark.



By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

## Bundled RGB Coaxial Cables Miniature and High-Flex Type

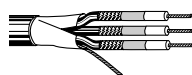


These bundled coaxial cables are available in 3, 4 or 5 conductor versions and are color coded for easy identification. Cable selection depends on whether the component transmission is RGB (3 cond.), RGB and Sync (4 cond.), or RGB, Sync and Hold (5 cond.).

All Belden® RGB cables are pre-timed to less than 5.0 ns/100 ft. delay difference between each coax. This allows for cut-and-connect installation with no TDR or Vectorscope timing required.

**Miniature • 30 AWG** Stranded (7x38) .012" Tinned Copper • Duofoil® + 90% TC Braid (Coaxes) • 100% Overall Beldfoil® Shield

|                                                                                   |            |       |      |     |       |       |      |      |           |      |      |          |      |      |    |     |      |      |      |      |       |
|-----------------------------------------------------------------------------------|------------|-------|------|-----|-------|-------|------|------|-----------|------|------|----------|------|------|----|-----|------|------|------|------|-------|
|  | UL AWM     | 1520A | NEC: | 3   | 500   | 152.4 | 25.0 | 11.4 | 30 AWG    | .056 | 1.42 | Coaxes:  | .283 | 7.19 | 75 | 78% | 17.3 | 56.7 | 1    | .8   | 2.6   |
|                                                                                   | Style 1354 |       | CL2  |     | 1000  | 304.8 | 50.0 | 22.7 | (7x38)    |      |      | Duofoil  |      |      |    |     |      |      | 5    | 1.5  | 4.9   |
|                                                                                   | (30V 60°C) |       |      |     |       |       |      |      | .012"     |      |      | + 90%    |      |      |    |     |      |      | 10   | 2.2  | 7.2   |
|                                                                                   |            |       |      |     |       |       |      |      | TC        |      |      | TC Braid |      |      |    |     |      |      | 30   | 4.0  | 13.1  |
|                                                                                   |            |       |      |     |       |       |      |      | 100.0Ω/M' |      |      | Overall: |      |      |    |     |      |      | 50   | 5.4  | 17.7  |
|                                                                                   |            |       |      |     |       |       |      |      | 328.0Ω/km |      |      | Beldfoil |      |      |    |     |      |      | 100  | 8.2  | 26.9  |
|                                                                                   |            |       |      |     |       |       |      |      |           |      |      | 9.5Ω/M'  |      |      |    |     |      |      | 200  | 12.5 | 41.0  |
|                                                                                   |            |       |      |     |       |       |      |      |           |      |      | 31.2Ω/km |      |      |    |     |      |      | 400  | 18.9 | 62.0  |
|                                                                                   |            |       |      |     |       |       |      |      |           |      |      |          |      |      |    |     |      |      | 700  | 26.5 | 86.9  |
|                                                                                   |            |       |      |     |       |       |      |      |           |      |      |          |      |      |    |     |      |      | 900  | 30.8 | 101.0 |
|                                                                                   | 1521A      | NEC:  | 4    | 500 | 152.4 | 30.0  | 13.6 | same | .056      | 1.42 | same | .310     | 7.87 |      |    |     |      |      | 1000 | 32.8 | 107.6 |



100% Sweep tested, 10 MHz to 40 MHz.

**Foam HDPE Insulation • Overall Matte Black PVC Jacket** (Color Code: Red, Green, Blue, White, Yellow)

100% Sweep tested. 10 MHz to 40 MHz.

<sup>†</sup>Spools are one piece, but length may vary  $\pm 10\%$  from length shown.

| Cond. | Color  |
|-------|--------|
| 1     | Red    |
| 2     | Green  |
| 3     | Blue   |
| 4     | White  |
| 5     | Yellow |



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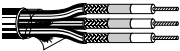
**RGB and SVHS Cable**

Bundled RGB Coaxial Cables  
CM and CMP Rated



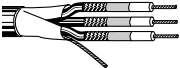
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**26 AWG** Stranded (7x34) .019" Bare Copper • Duofoil® + 93% Tinned Copper Braid Shield • Overall Polyester Tape

| Foam HDPE Insulation • Overall Black PVC Jacket • Inner PVC Jacket (Color Code: Red, Green, Blue, White, Yellow)                    |              |            |   |       |       |       |      |                     |      |      |                     |      |       |    |     |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|---|-------|-------|-------|------|---------------------|------|------|---------------------|------|-------|----|-----|------|------|------|------|------|
| UL AWM<br>Styles 1354<br>and 2668<br>(30V 60°C)<br> | <b>1164B</b> | NEC:<br>CM | 3 | 500†  | 152.4 | 39.5  | 18.0 | 26 AWG<br>(7x34)    | .090 | 2.29 | Duofoil             | .388 | 9.86  | 75 | 78% | 17.3 | 56.7 | 1    | .6   | 2.0  |
|                                                                                                                                     |              |            |   | 1000† | 304.8 | 78.0  | 35.5 |                     |      |      | Coax OD:<br>.019"   |      |       |    |     |      |      | 5    | 1.3  | 4.3  |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | TC Braid            |      |       |    |     |      |      | 10   | 1.8  | 5.9  |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | BC                  |      |       |    |     |      |      | 30   | 3.1  | 10.2 |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | 8.6Ω/M'             |      |       |    |     |      |      | 50   | 3.9  | 12.8 |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | 41.5Ω/M'            |      |       |    |     |      |      | 100  | 5.4  | 17.7 |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | 136.1Ω/km           |      |       |    |     |      |      | 200  | 7.5  | 24.6 |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      |                     |      |       |    |     |      |      | 400  | 10.4 | 34.1 |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      |                     |      |       |    |     |      |      | 700  | 13.5 | 44.3 |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      |                     |      |       |    |     |      |      | 900  | 15.2 | 49.9 |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      |                     |      |       |    |     |      |      | 1000 | 15.9 | 52.2 |
|                                                                                                                                     | <b>1167B</b> | NEC:<br>CM | 4 | 1000† | 304.8 | 105.0 | 47.7 | same<br>as<br>above | .090 | 2.29 | same<br>as<br>above | .455 | 11.56 |    |     |      |      |      |      |      |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | Coax OD:<br>.146    |      |       |    |     |      |      |      |      |      |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | 3.71                |      |       |    |     |      |      |      |      |      |
|                                                                                                                                     | <b>1418B</b> | NEC:<br>CM | 5 | 500†  | 152.4 | 61.0  | 27.7 | same<br>as<br>above | .090 | 2.29 | same<br>as<br>above | .477 | 12.12 |    |     |      |      |      |      |      |
|                                                                                                                                     |              |            |   | 1000† | 304.8 | 118.0 | 53.6 |                     |      |      | Coax OD:<br>.146    |      |       |    |     |      |      |      |      |      |
|                                                                                                                                     |              |            |   |       |       |       |      |                     |      |      | 3.71                |      |       |    |     |      |      |      |      |      |

100% Sweep tested. 10 MHz to 40 MHz.

**RG-59/U Type • 22 AWG** Stranded (7x30) .030" Bare Copper • Duofoil + 95% TC Braid (Coaxes) • 100% Overall Beldfoil® Shield

| Plenum • Foam FEP Insulation • Overall Natural Flamarrest® Jacket • Inner Fluorocopolymer Jacket (See Chart) |              |             |   |      |       |       |      |                     |      |      |                      |      |       |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------|--------------|-------------|---|------|-------|-------|------|---------------------|------|------|----------------------|------|-------|----|-----|------|------|------|------|------|
| 60°C<br>                    | <b>1824A</b> | NEC:<br>CMP | 3 | 500  | 152.4 | 63.5  | 28.9 | 22 AWG<br>(7x30)    | .135 | 3.43 | Coaxes:<br>Duofoil   | .475 | 12.07 | 75 | 81% | 17.3 | 56.7 | 1    | .3   | .8   |
|                                                                                                              |              |             |   | 1000 | 304.8 | 127.0 | 57.7 |                     |      |      | + 95%                |      |       |    |     |      |      | 5    | .6   | 1.9  |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | Coax OD:<br>.030"    |      |       |    |     |      |      | 10   | .8   | 2.7  |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | TC Braid             |      |       |    |     |      |      | 30   | 1.5  | 4.9  |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | 2.5Ω/km              |      |       |    |     |      |      | 50   | 2.0  | 6.4  |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | 8.3Ω/km              |      |       |    |     |      |      | 100  | 2.9  | 9.5  |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | Overall:<br>Beldfoil |      |       |    |     |      |      | 200  | 4.3  | 14.2 |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | 100% Shield          |      |       |    |     |      |      | 400  | 6.6  | 21.6 |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | Coverage             |      |       |    |     |      |      | 700  | 9.4  | 30.9 |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | 11.1Ω/M'             |      |       |    |     |      |      | 900  | 11.1 | 36.4 |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | 36.4Ω/km             |      |       |    |     |      |      | 1000 | 11.9 | 39.0 |
|                                                                                                              | <b>1825A</b> | NEC:<br>CMP | 4 | 500  | 152.4 | 84.5  | 38.4 | same<br>as<br>above | .135 | 3.43 | same<br>as<br>above  | .527 | 13.39 |    |     |      |      |      |      |      |
|                                                                                                              |              |             |   | 1000 | 304.8 | 167.0 | 75.9 |                     |      |      | Coax OD:<br>.200     |      |       |    |     |      |      |      |      |      |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | 5.08                 |      |       |    |     |      |      |      |      |      |
|                                                                                                              | <b>1826A</b> | NEC:<br>CMP | 5 | 500  | 152.4 | 101.5 | 46.1 | same<br>as<br>above | .135 | 3.43 | same<br>as<br>above  | .585 | 14.86 |    |     |      |      |      |      |      |
|                                                                                                              |              |             |   | 1000 | 304.8 | 201.0 | 91.4 |                     |      |      | Coax OD:<br>.200     |      |       |    |     |      |      |      |      |      |
|                                                                                                              |              |             |   |      |       |       |      |                     |      |      | 5.08                 |      |       |    |     |      |      |      |      |      |

100% Sweep tested. 10 MHz to 40 MHz.

BC = Bare Copper DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.

†Spools are one piece, but length may vary ±10% from length shown.

**Color Code Chart**

| Cond. | Color | Cond. | Color  |
|-------|-------|-------|--------|
| 1     | Red   | 4     | White  |
| 2     | Green | 5     | Yellow |
| 3     | Blue  |       |        |



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1-800-527-0010



## RGB and SVHS Cable

### High-Flex SVHS Cables



The Super VHS (SVHS) video format (also known as Y/C or S-video) requires two coaxial cables to allow for separate transmission of the two parts of a VHS video signal; the luminance (Y) and chrominance (C). The chrominance signal contains the color information and the luminance the black and white or brightness information of the video signal. This separated transmission of the VHS video signal provides better picture resolution with less noise than does the standard VHS format.

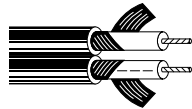
Belden's SVHS cables have been designed specifically for use in this format. Belden's SVHS cables are available in two popular constructions; a Zip style dual coax and a Round jacketed version. The Zip construction provides for quick and easy termination. The Round design provides better aesthetics and is more rugged. Both cables are highly flexible.

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|------------------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                              |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

#### 30 AWG Stranded (7x38) .012" Tinned Copper • Tinned Copper Serve (90% Shield Coverage)

##### Foam HDPE Insulation • Matte Black PVC Jacket (One Coax Printed and Striped for Identification)

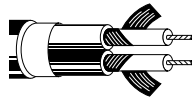
|                              |              |  |        |         |      |     |                                                                             |      |      |                                                                             |      |      |    |     |      |      |     |     |      |
|------------------------------|--------------|--|--------|---------|------|-----|-----------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------|------|------|----|-----|------|------|-----|-----|------|
| Parallel Zip<br>Construction | <b>1807A</b> |  | U-500  | U-152.4 | 8.0  | 3.6 | 30 AWG<br>(7x38)<br>.012"<br>TC<br>100.0 $\Omega$ /M'<br>328.0 $\Omega$ /km | .058 | 1.47 | TC Serve<br>90% Shield<br>Coverage<br>7.5 $\Omega$ /M'<br>24.6 $\Omega$ /km | .110 | 2.79 | 75 | 78% | 17.3 | 56.7 | 1   | .6  | 2.0  |
|                              |              |  | 500    | 152.4   | 8.5  | 3.9 |                                                                             |      |      |                                                                             |      |      |    |     |      |      | 5   | 1.4 | 4.6  |
|                              |              |  | U-1000 | U-304.8 | 15.0 | 6.8 |                                                                             |      |      |                                                                             |      |      |    |     |      |      | 10  | 2.1 | 6.9  |
|                              |              |  | 1000   | 304.8   | 19.0 | 8.6 |                                                                             |      |      |                                                                             |      |      |    |     |      |      | 30  | 3.8 | 12.5 |
|                              |              |  |        |         |      |     |                                                                             |      |      |                                                                             |      |      |    |     |      |      | 50  | 5.1 | 16.7 |
|                              |              |  |        |         |      |     |                                                                             |      |      |                                                                             |      |      |    |     |      |      | 100 | 7.6 | 24.9 |



For Plenum version of 1807A,  
see 7700A.

##### Foam HDPE Insulation • Matte Black PVC Jacket (Inner PVC Jackets Color Code: Black and Yellow)

|                       |              |  |        |         |      |      |                                                                             |      |      |                                                                             |      |     |    |     |      |      |     |     |      |
|-----------------------|--------------|--|--------|---------|------|------|-----------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------|------|-----|----|-----|------|------|-----|-----|------|
| Round<br>Construction | <b>1808A</b> |  | U-500  | U-152.4 | 15.0 | 6.8  | 30 AWG<br>(7x38)<br>.012"<br>TC<br>100.0 $\Omega$ /M'<br>328.0 $\Omega$ /km | .058 | 1.47 | TC Serve<br>90% Shield<br>Coverage<br>7.5 $\Omega$ /M'<br>24.6 $\Omega$ /km | .255 | .84 | 75 | 78% | 17.3 | 56.7 | 1   | .6  | 2.0  |
|                       |              |  | 500    | 152.4   | 15.5 | 7.0  |                                                                             |      |      |                                                                             |      |     |    |     |      |      | 5   | 1.4 | 4.6  |
|                       |              |  | U-1000 | U-304.8 | 30.0 | 13.7 |                                                                             |      |      |                                                                             |      |     |    |     |      |      | 10  | 2.1 | 6.9  |
|                       |              |  | 1000   | 304.8   | 31.0 | 14.1 |                                                                             |      |      |                                                                             |      |     |    |     |      |      | 30  | 3.8 | 12.5 |
|                       |              |  |        |         |      |      |                                                                             |      |      |                                                                             |      |     |    |     |      |      | 50  | 5.1 | 16.7 |
|                       |              |  |        |         |      |      |                                                                             |      |      |                                                                             |      |     |    |     |      |      | 100 | 7.6 | 24.9 |

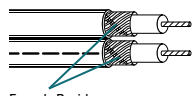


Available in Plenum versions  
by special order only.

#### 30 AWG Stranded (7x38) .012" Tinned Copper • Tinned Copper "French Braid" (98% Shield Coverage)

##### Plenum • Foam FEP Insulation • Black Flamarrest® Jacket (One Coax Printed and Striped for Identification)

|                              |              |             |      |       |      |     |                                                                             |      |      |                                                                                         |      |      |    |     |      |      |     |     |      |
|------------------------------|--------------|-------------|------|-------|------|-----|-----------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------------|------|------|----|-----|------|------|-----|-----|------|
| Parallel Zip<br>Construction | <b>7700A</b> | NEC:<br>CMP | 500  | 152.4 | 10.5 | 4.8 | 30 AWG<br>(7x38)<br>.012"<br>TC<br>100.0 $\Omega$ /M'<br>328.0 $\Omega$ /km | .053 | 1.35 | TC<br>"French Braid"<br>98% Shield<br>Coverage<br>7.4 $\Omega$ /M'<br>24.3 $\Omega$ /km | .107 | 2.72 | 75 | 78% | 17.3 | 56.7 | 1   | .7  | 2.3  |
|                              |              |             | 1000 | 304.8 | 19.0 | 8.6 |                                                                             |      |      |                                                                                         |      |      |    |     |      |      | 5   | 1.7 | 5.6  |
|                              |              |             |      |       |      |     |                                                                             |      |      |                                                                                         |      |      |    |     |      |      | 10  | 2.3 | 7.5  |
|                              |              |             |      |       |      |     |                                                                             |      |      |                                                                                         |      |      |    |     |      |      | 30  | 4.1 | 13.4 |
|                              |              |             |      |       |      |     |                                                                             |      |      |                                                                                         |      |      |    |     |      |      | 50  | 5.3 | 17.4 |
|                              |              |             |      |       |      |     |                                                                             |      |      |                                                                                         |      |      |    |     |      |      | 100 | 7.6 | 24.9 |



French Braid

DCR = DC Resistance • TC = Tinned Copper • HDPE = High-density Polyethylene

Contact the Belden Wire & Cable Customer Service Department for a more Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of cables not listed.



## Technical Information



### Maximum Transmission Distance at Serial Digital Data Rates

| Data Rate: 143 Mb/s         |      |     | 177 Mb/s      |     | 270 Mb/s        |     | 360 Mb/s             |     | 540 Mb/s             |     | 1.5 Gb/s   |     |
|-----------------------------|------|-----|---------------|-----|-----------------|-----|----------------------|-----|----------------------|-----|------------|-----|
| Spec: SMPTE 259M            |      |     | ITU-R BT. 601 |     | SMPTE 259M      |     | SMPTE 259M           |     | SMPTE 344M*          |     | SMPTE 252M |     |
| Application: Composite NTSC |      |     | Composite PAL |     | Component Video |     | Component Widescreen |     | Component Widescreen |     | HDTV       |     |
| Part No.                    | Ft.  | m   | Ft.           | m   | Ft.             | m   | Ft.                  | m   | Ft.                  | m   | Ft.        | m   |
| 1865A                       | 810  | 247 | 760           | 232 | 600             | 183 | 520                  | 158 | 420                  | 128 | 170        | 52  |
| 8279                        | 910  | 277 | 810           | 247 | 640             | 195 | 550                  | 168 | 440                  | 134 | 170        | 52  |
| 1855A-7787A                 | 1000 | 305 | 910           | 277 | 750             | 229 | 650                  | 198 | 530                  | 162 | 210        | 64  |
| 9209                        | 1030 | 314 | 930           | 283 | 750             | 229 | 650                  | 198 | 540                  | 165 | 200        | 61  |
| 9209A                       | 1030 | 314 | 930           | 283 | 750             | 229 | 650                  | 198 | 540                  | 165 | 200        | 61  |
| 1505A-7794A                 | 1430 | 436 | 1320          | 402 | 1110            | 338 | 960                  | 293 | 790                  | 241 | 300        | 91  |
| 1505F                       | 1200 | 366 | 1071          | 326 | 857             | 261 | 732                  | 223 | 588                  | 179 | 225        | 69  |
| 1506A                       | 1360 | 415 | 1200          | 366 | 940             | 286 | 810                  | 247 | 670                  | 204 | 270        | 82  |
| 9231                        | 1430 | 436 | 1270          | 387 | 1000            | 305 | 850                  | 259 | 680                  | 207 | 260        | 79  |
| 9141                        | 1430 | 436 | 1270          | 387 | 1000            | 305 | 850                  | 259 | 680                  | 207 | 260        | 79  |
| 8281                        | 1430 | 436 | 1270          | 387 | 1000            | 305 | 860                  | 262 | 700                  | 213 | 260        | 79  |
| 8281B                       | 1430 | 436 | 1270          | 387 | 1000            | 305 | 850                  | 259 | 680                  | 207 | 250        | 76  |
| 8281F                       | 1250 | 381 | 1100          | 335 | 860             | 262 | 730                  | 222 | 590                  | 180 | 240        | 73  |
| 88281                       | 1300 | 396 | 1150          | 351 | 910             | 277 | 770                  | 235 | 600                  | 183 | 200        | 61  |
| 1694A-7710A                 | 1760 | 536 | 1620          | 494 | 1360            | 415 | 1180                 | 360 | 970                  | 296 | 370        | 113 |
| 1695A                       | 1670 | 509 | 1520          | 463 | 1250            | 381 | 1080                 | 329 | 880                  | 268 | 310        | 94  |
| 7855A                       | 2220 | 677 | 2000          | 610 | 1670            | 509 | 1460                 | 445 | 1210                 | 369 | 470        | 143 |
| 7731A                       | 2730 | 832 | 2460          | 750 | 2000            | 610 | 1740                 | 530 | 1430                 | 436 | 540        | 165 |
| 7732A                       | 2420 | 738 | 2140          | 652 | 1690            | 515 | 1440                 | 439 | 1150                 | 351 | 430        | 131 |

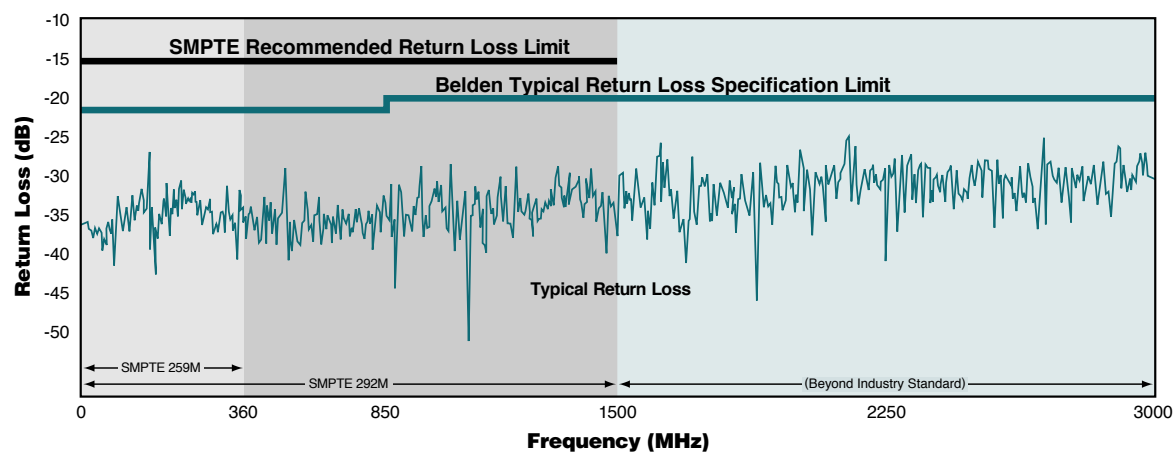
\*Values proposed at time of printing.

The serial digital interconnect standards are designed to operate where the signal loss at 1/2 the clock frequency does not exceed the approximate loss values listed below. The maximum length values shown are based on typical attenuation values for the cables listed and the following criteria:

Maximum length = 30 dB loss at 1/2 the clock frequency: SMPTE 259M, PAL, Widescreen.  
Maximum length = 20 dB loss at 1/2 the clock frequency: SMPTE 292M.

The bit error rate (BER) can vary dramatically as the calculated distances are approached. BER is dependent on receiver design and the losses of the actual coax used. Distribution and routing equipment manufacturers should be contacted to verify their maximum recommended transmission.

### Return Loss Headroom (1694A)



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# New Generation® Cables

# 13

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## Sound, Security and Alarm Cables

### Introduction

Market needs are continually challenging the limits of cable technology. And nowhere is the demand for uncompromising quality and leading-edge technology more critical than in sound and security applications.

Belden's answer to this challenge is a line of low voltage, electronic cables that provide the selection, imagination, technical expertise and quality required to meet the demands of increasingly complex sound and security systems. We call this line New Generation.

### Unmatched Selection, Quality And Service

Our New Generation cable line includes one of the largest, most economical, and up-to-date selections of reliable multi-conductor and coaxial products on the market today. A full complement of cables for sound, control, computer interconnect, alarm, security, CCTV and other security applications is offered. And behind every one of these cables is years of research and development and Belden's unequalled reputation for quality and service.

Most of our New Generation cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a New Generation cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Innovative and Advanced Cables

For over 90 years, Belden has been committed to the development and support of highly effective cabling solutions. With Belden® New Generation cable products, you can be assured that you're getting the most innovative and advanced cables available today. Here are a few examples of our commitment to making our cables not only work better but also better to work with:

- Sequential footage markings on the cable jacket quickly eliminate guesswork and waste.
- The cables are predominantly NEC Riser Rated (CMR and FPLR) or above to meet even unusually stringent application conditions. All Belden CM, CMR and CMP types are both UL and C(UL) approved.
- A rip cord underneath the jacket provides for easy removal at installation.
- Easy set-up and easy-pulling, space-saving, tangle-free coil packages available for many codes. These revolutionary coil packages vastly reduce job clean-up and waste removal as well.
- Water-blocked options for multi-conductor cables and for coax — where security, surveillance and fire alarm cables are installed in intermittently wet environments.

### Quality You Can Count On

A system failure, or loss of continuity, can be catastrophic. That's why you need a cable that is recognized the world over for its quality. And that cable is a Belden cable. All of our New Generation cables are designed with quality as a top priority. Belden was the first major designer and manufacturer of electronic wire and cable products to earn ISO 9001/9002 registration for all its domestic and overseas facilities. In achieving total ISO 9001/9002 registration; United States' Belden passed some of the United States' and Europe's most rigorous tests for quality and, once again, demonstrated the company's dedication to total quality.



### New Generation Cable Packaging

#### UnReel® Dispenser

As with most Belden cables, several New Generation cable products are available in Belden's UnReel cardboard dispenser. The UnReel is a unique packaging dispensing system developed by Belden to save time and labor compared to spools, and eliminate the need for dereeling equipment. Lightweight and more economical than conventional drums or reels, UnReel dispensers have pre-punched handles for easy, individual transport as well as rectangular boxes for easy pallet delivery and storage. UnReel cable pays out smoothly and evenly with less kinking, twisting or backlashing. It also rolls out 60% faster than cable from spools or reels.

#### Revolutionary Coil Package

New this year, certain New Generation cables are available in a coil package. These revolutionary coils are an easy-to-handle standard package size so pallet loading is uniform. In addition, this densely packaged coil results in less space requirements for your wire, saving shelf space, truck space and cage space at the job. Plus, with no box and no spool, there is far less waste and clean-up required after the job.

Coils are the most tangle-proof package available. And, because the wire pulls from the middle you only have to pull the weight of the length of wire that is your distance from the coil. In pulling spools, you are always pulling the *whole package* weight to get it spinning. And with spools, when you stop pulling, the spool doesn't stop spinning. Help is required to stop this from happening and to keep the payouts tangle free. With coils, that help can be doing something more productive. What's more, five coils may be stacked and pulled in parallel through their common center.

So ask for New Generation's coil package, and leave reel jacks and payout stands behind along with any worries about wet boxes or discarding of empty boxes.



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**Sound, Security and Alarm Cables**

Cable Finder Guide — By Application



| AWG Size                             | No. of Cond. | Stranding | Non-Shielded |        |          |          |        |          | Shielded   |        |          |          |        |          |
|--------------------------------------|--------------|-----------|--------------|--------|----------|----------|--------|----------|------------|--------|----------|----------|--------|----------|
|                                      |              |           | Non-Plenum   |        |          | Plenum   |        |          | Non-Plenum |        |          | Plenum   |        |          |
|                                      |              |           | Part No.     | Rating | Page No. | Part No. | Rating | Page No. | Part No.   | Rating | Page No. | Part No. | Rating | Page No. |
| Security, Alarm and Commercial Audio |              |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 12                                   | 2            | 19        | 5000UE       | CL3R   | 13.10/41 | 6000UE   | CL2P   | 13.21/44 | 5000FE     | CL3R   | 13.12/43 | 6000FE   | CL2P   | 13.23/45 |
|                                      | 3            | 19        | 5001UE       | CL3R   | 13.10/41 | 6001UE   | CL2P   | 13.21/44 | —          | —      | —        | —        | —      | —        |
|                                      | 4            | 19        | —            | —      | —        | 6002UE   | CL2P   | 13.21    | —          | —      | —        | —        | —      | —        |
| 14                                   | 2            | 19        | 5100UE       | CL3R   | 13.10/41 | 6100UE   | CL2P   | 13.21/44 | 5100FE     | CL3R   | 13.12/43 | 6100FE   | CL2P   | 13.23/45 |
|                                      | 3            | 19        | 5101UE       | CL3R   | 13.10/41 | 6101UE   | CL2P   | 13.21/44 | 5101FE     | CL3R   | 13.12/43 | 6101FE   | CL2P   | 13.23/45 |
|                                      | 4            | 19        | 5102UE       | CL3R   | 13.10    | 6102UE   | CL2P   | 13.21    | —          | —      | —        | —        | —      | —        |
| 16                                   | 2            | 19        | 5200UE       | CMR    | 13.9/41  | 6200UE   | CMP    | 13.20/44 | 5200FE     | CMR    | 13.12/43 | 6200FE   | CMP    | 13.23/45 |
|                                      | 3            | 19        | 5201UE       | CMR    | 13.9/41  | 6201UE   | CMP    | 13.20/44 | 5201FE     | CMR    | 13.12/43 | 6201FE   | CMP    | 13.23/45 |
|                                      | 4            | 19        | 5202UE       | CMR    | 13.9     | 6202UE   | CMP    | 13.20    | 5202FE     | CMR    | 13.12    | 6202FE   | CMP    | 13.23    |
|                                      | 7            | 19        | 5205UE       | CMR    | 13.9     | 6205UE   | CMP    | 13.20    | —          | —      | —        | —        | —      | —        |
| 18                                   | 2            | Solid     | 5320UE       | CMR    | 13.9/41  | 6320UE   | CMP    | 13.20/44 | 5320FE     | CMR    | 13.12/43 | 6320FE   | CMP    | 13.23/45 |
|                                      | 2            | 7         | 5300UG       | CM     | 13.7     | 6300UE   | CMP    | 13.20/44 | 5300FE     | CMR    | 13.12/43 | 6300FE   | CMP    | 13.23/45 |
|                                      | 2            | 7         | 5300UE       | CMR    | 13.9/41  | 6300UE   | CMP    | 13.20/44 | 5300FE     | CMR    | 13.12/43 | 6300FE   | CMP    | 13.23/45 |
|                                      | 3            | Solid     | 5321UE       | CMR    | 13.9/41  | 6321UE   | CMP    | 13.20/44 | —          | —      | —        | —        | —      | —        |
|                                      | 3            | 7         | 5301UE       | CMR    | 13.9/41  | 6301UE   | CMP    | 13.20/44 | 5301FE     | CMR    | 13.12/43 | 6301FE   | CMP    | 13.23/45 |
|                                      | 4            | Solid     | 5322UE       | CMR    | 13.9     | 6322UE   | CMP    | 13.20    | —          | —      | —        | —        | —      | —        |
|                                      | 4            | 7         | 5302UE       | CMR    | 13.9     | 6302UE   | CMP    | 13.20    | 5302FE     | CMR    | 13.12    | 6302FE   | CMP    | 13.23    |
|                                      | 5            | 7         | 5303UE       | CMR    | 13.9     | 6303UE   | CMP    | 13.20    | 5303FE     | CMR    | 13.12    | —        | —      | —        |
|                                      | 6            | 7         | 5304UE       | CMR    | 13.9     | 6304UE   | CMP    | 13.20    | 5304FE     | CMR    | 13.12    | 6304FE   | CMP    | 13.23    |
|                                      | 7            | 7         | 5305UE       | CMR    | 13.9     | —        | —      | —        | 5305FE     | CMR    | 13.12    | —        | —      | —        |
|                                      | 8            | 7         | 5306UE       | CMR    | 13.9     | 6306UE   | CMP    | 13.20    | 5306FE     | CMR    | 13.12    | 6306FE   | CMP    | 13.23    |
|                                      | 9            | 7         | 5307UE       | CMR    | 13.9     | 6307UE   | CMP    | 13.20    | 5307FE     | CMR    | 13.12    | 6307FE   | CMP    | 13.23    |
|                                      | 10           | 7         | 5308UE       | CMR    | 13.9     | 6308UE   | CMP    | 13.20    | —          | —      | —        | —        | —      | —        |
|                                      | 12           | 7         | 5309UE       | CMR    | 13.9     | 6309UE   | CMP    | 13.20    | —          | —      | —        | 6309FE   | CMP    | 13.23    |
|                                      | 20           | 7         | 530BUE       | CMR    | 13.9     | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                      | 20           | 2         | Solid        | —      | —        | —        | —      | —        | —          | —      | —        | —        | 6420FE | CMP      |
| 2                                    |              | 7         | 5400UE       | CMR    | 13.8/41  | 6400UE   | CMP    | 13.19/44 | 5400FE     | CMR    | 13.11/43 | 6400FE   | CMP    | 13.22/45 |
| 3                                    |              | Solid     | —            | —      | —        | —        | —      | —        | 5421FE     | CMR    | 13.43    | —        | —      | —        |
| 3                                    |              | 7         | 5401UE       | CMR    | 13.8/41  | 6401UE   | CMP    | 13.19/44 | 5401FE     | CMR    | 13.11/43 | 6401FE   | CMP    | 13.22/45 |
| 4                                    |              | 7         | 5402UE       | CMR    | 13.8     | 6402UE   | CMP    | 13.19    | 5402FE     | CMR    | 13.11    | 6402FE   | CMP    | 13.22    |
| 5                                    |              | 7         | 5403UE       | CMR    | 13.8     | 6403UE   | CMP    | 13.19    | 5403FE     | CMR    | 13.11    | —        | —      | —        |
| 7                                    |              | 7         | 5405UE       | CMR    | 13.8     | —        | —      | —        | 5405FE     | CMR    | 13.11    | 6405FE   | CMP    | 13.22    |
| 8                                    |              | 7         | 5406UE       | CMR    | 13.8     | 6406UE   | CMP    | 13.19    | —          | —      | —        | —        | —      | —        |
| 9                                    |              | 7         | 5407UE       | CMR    | 13.8     | —        | —      | —        | 5407FE     | CMR    | 13.11    | 6407FE   | CMP    | 13.22    |
| 10                                   |              | 7         | 5408UE       | CMR    | 13.8     | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| 12                                   |              | 7         | 5409UE       | CMR    | 13.8     | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| 20                                   |              | 7         | 540BUE       | CMR    | 13.8     | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| 22                                   | 2            | Solid     | 5520UE       | CMR    | 13.8/41  | 6520UE   | CMP    | 13.19/44 | 5520FE     | CMR    | 13.11/43 | 6520FE   | CMP    | 13.22/45 |
|                                      | 2            | 7         | 5500UG       | CM     | 13.7     | 6500UE   | CMP    | 13.19/44 | 5500FE     | CMR    | 13.11/43 | 6500FE   | CMP    | 13.22/45 |
|                                      | 2            | 7         | 5500UE       | CMR    | 13.8/41  | 6500UE   | CMP    | 13.19/44 | 5500FE     | CMR    | 13.11/43 | 6500FE   | CMP    | 13.22/45 |
|                                      | 3            | Solid     | —            | —      | —        | 6521UE   | CMP    | 13.19/44 | 5521FE     | CMR    | 13.11/43 | 6521FE   | CMP    | 13.22/45 |
|                                      | 3            | 7         | 5501UE       | CMR    | 13.8/41  | 6501UE   | CMP    | 13.19/44 | 5501FE     | CMR    | 13.11/43 | 6501FE   | CMP    | 13.22/45 |
|                                      | 4            | Solid     | 5582UG       | CM     | 13.7     | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                      | 4            | Solid     | 5522UE       | CMR    | 13.8     | 6522UE   | CMP    | 13.19    | —          | —      | —        | —        | —      | —        |
|                                      | 4            | Solid     | 5582UE       | CMR    | 13.8     | 6522UE   | CMP    | 13.19    | —          | —      | —        | —        | —      | —        |
|                                      | 4            | 7         | 5502UG       | CM     | 13.7     | 6502UE   | CMP    | 13.19    | 5502FE     | CMR    | 13.11    | 6502FE   | CMP    | 13.22    |
|                                      | 4            | 7         | 5502UE       | CMR    | 13.8     | 6502UE   | CMP    | 13.19    | 5502FE     | CMR    | 13.11    | 6502FE   | CMP    | 13.22    |
|                                      | 5            | 7         | 5503UE       | CMR    | 13.8     | —        | —      | —        | 5503FE     | CMR    | 13.11    | —        | —      | —        |
|                                      | 6            | Solid     | 5524UE       | CMR    | 13.8     | 6524UE   | CMP    | 13.19    | —          | —      | —        | —        | —      | —        |
|                                      | 6            | 7         | 5504UE       | CMR    | 13.8     | 6504UE   | CMP    | 13.19    | 5504FE     | CMR    | 13.11    | 6504FE   | CMP    | 13.22    |
|                                      | 8            | Solid     | 5526UE       | CMR    | 13.8     | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                      | 8            | 7         | 5506UE       | CMR    | 13.8     | 6506UE   | CMP    | 13.19    | 5506FE     | CMR    | 13.11    | 6506FE   | CMP    | 13.22    |
|                                      | 10           | 7         | 5508UE       | CMR    | 13.8     | 6508UE   | CMP    | 13.19    | 5508FE     | CMR    | 13.11    | 6508FE   | CMP    | 13.22    |
|                                      | 12           | Solid     | 5529UE       | CMR    | 13.8     | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                      | 12           | 7         | 5509UE       | CMR    | 13.8     | 6509UE   | CMP    | 13.19    | —          | —      | —        | —        | —      | —        |
| 24                                   | 2            | 7         | —            | —      | —        | —        | —      | —        | 5600FE     | CMR    | 13.11/43 | —        | —      | —        |



# Sound, Security and Alarm Cables

## Cable Finder Guide — By Application



| AWG<br>Size                    | No. of<br>Cond.<br>or<br>Pairs | Stranding | Non-Shielded |        |          |          |        |          | Shielded   |        |          |          |        |          |
|--------------------------------|--------------------------------|-----------|--------------|--------|----------|----------|--------|----------|------------|--------|----------|----------|--------|----------|
|                                |                                |           | Non-Plenum   |        |          | Plenum   |        |          | Non-Plenum |        |          | Plenum   |        |          |
|                                |                                |           | Part No.     | Rating | Page No. | Part No. | Rating | Page No. | Part No.   | Rating | Page No. | Part No. | Rating | Page No. |
| Paired                         |                                |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 18                             | 2 PR                           | 7         | 5341UE       | CMR    | 13.14    | 6341UE   | CMP    | 13.24    | 5341FE     | CMR    | 13.15    | —        | —      | —        |
|                                | 3 PR                           | 7         | 5342UE       | CMR    | 13.14    | 6342UE   | CMP    | 13.24    | 5342FE     | CMR    | 13.15    | 6342FE   | CMP    | 13.25    |
|                                | 4 PR                           | 7         | 5343UE       | CMR    | 13.14    | 6343UE   | CMP    | 13.24    | 5343FE     | CMR    | 13.15    | 6343FE   | CMP    | 13.25    |
|                                | 6 PR                           | 7         | 5345UE       | CMR    | 13.14    | 6345UE   | CMP    | 13.24    | 5345FE     | CMR    | 13.15    | 6345FE   | CMP    | 13.25    |
|                                | 9 PR                           | 7         | 5347UE       | CMR    | 13.14    | 6347UE   | CMP    | 13.24    | —          | —      | —        | 6347FE   | CMP    | 13.25    |
| 20                             | 2 PR                           | 7         | —            | —      | —        | —        | —      | —        | 5441FE     | CMR    | 13.15    | 6441FE   | CMP    | 13.25    |
|                                | 3 PR                           | 7         | —            | —      | —        | —        | —      | —        | 5442FE     | CMR    | 13.15    | —        | —      | —        |
|                                | 4 PR                           | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6443FE   | CMP    | 13.25    |
|                                | 6 PR                           | 7         | —            | —      | —        | —        | —      | —        | 5445FE     | CMR    | 13.15    | —        | —      | —        |
| 22                             | 2 PR                           | Solid     | —            | —      | —        | 6561UE   | CMP    | 13.24    | 5561FE     | CMR    | 13.15    | 6561FE   | CMP    | 13.25    |
|                                | 2 PR                           | 7         | 5541UE       | CMR    | 13.14    | 6541UE   | CMP    | 13.24    | 5541FE     | CMR    | 13.15    | 6541FE   | CMP    | 13.25    |
|                                | 3 PR                           | Solid     | —            | —      | —        | 6562UE   | CMP    | 13.24    | 5562FE     | CMR    | 13.15    | —        | —      | —        |
|                                | 3 PR                           | 7         | 5542UE       | CMR    | 13.14    | 6542UE   | CMP    | 13.24    | 5542FE     | CMR    | 13.15    | 6542FE   | CMP    | 13.25    |
|                                | 4 PR                           | Solid     | —            | —      | —        | 6563UE   | CMP    | 13.24    | 5563FE     | CMR    | 13.15    | 6563FE   | CMP    | 13.25    |
|                                | 4 PR                           | 7         | 5543UE       | CMR    | 13.14    | 6543UE   | CMP    | 13.24    | 5543FE     | CMR    | 13.15    | 6543FE   | CMP    | 13.25    |
|                                | 6 PR                           | 7         | —            | —      | —        | 6545UE   | CMP    | 13.24    | 5545FE     | CMR    | 13.15    | 6545FE   | CMP    | 13.25    |
|                                | 9 PR                           | 7         | 5547UE       | CMR    | 13.14    | 6547UE   | CMP    | 13.24    | —          | —      | —        | 6547FE   | CMP    | 13.25    |
| Shielded Twisted Pairs         |                                |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 22                             | 4 STP                          | 7         | —            | —      | —        | —        | —      | —        | 5543PE     | CMR    | 13.16    | —        | —      | —        |
| Combination Pairs + Conductors |                                |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 18                             | 1STP<br>+2/C                   | 7         | —            | —      | —        | —        | —      | —        | 5302GE     | CMR    | 13.17    | —        | —      | —        |
| 20                             | 1STP<br>+1/C                   | 7         | —            | —      | —        | —        | —      | —        | 5401GE     | CMR    | 13.17    | 6401GE   | CMP    | 13.26    |
|                                | 1STP<br>+2/C                   | 7         | —            | —      | —        | —        | —      | —        | 5402GE     | CMR    | 13.17    | —        | —      | —        |
| 22                             | 1STP<br>+1/C                   | 7         | —            | —      | —        | —        | —      | —        | 5501GE     | CMR    | 13.17    | 6501GE   | CMP    | 13.26    |
|                                | 1STP<br>+2/C                   | 7         | —            | —      | —        | —        | —      | —        | 5502GE     | CMR    | 13.17    | 6502GE   | CMP    | 13.26    |
|                                | 1STP<br>+2TP                   | 7         | —            | —      | —        | —        | —      | —        | 5542GE     | CMR    | 13.17    | —        | —      | —        |
| Water-blocked                  |                                |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 18                             | 2/C                            | 7         | 5300U1       | CM     | 13.13    | —        | —      | —        | 5300F1     | CM     | 13.13    | —        | —      | —        |
| 20                             | 2/C                            | 7         | —            | —      | —        | —        | —      | —        | 5400F1     | CM     | 13.13    | —        | —      | —        |
| 22                             | 2/C                            | 7         | —            | —      | —        | —        | —      | —        | 5500F1     | CM     | 13.13    | —        | —      | —        |
|                                | 1STP<br>+1/C                   | Solid     | —            | —      | —        | —        | —      | —        | 5521G1     | CM     | 13.18    | —        | —      | —        |
|                                | 1STP<br>+1/C                   | 7         | —            | —      | —        | —        | —      | —        | 5501G1     | CM     | 13.18    | —        | —      | —        |
|                                | 1STP<br>+2/C                   | Solid     | —            | —      | —        | —        | —      | —        | 5522G1     | CM     | 13.18    | —        | —      | —        |
|                                | 1STP<br>+2/C                   | 7         | —            | —      | —        | —        | —      | —        | 5502G1     | CM     | 13.18    | —        | —      | —        |
|                                | 1STP<br>+4/C                   | 7         | —            | —      | —        | —        | —      | —        | 5504G1     | CM     | 13.18    | —        | —      | —        |

STP = Shielded Twisted Pair(s) • TP = Twisted Pair(s) • PR = Pair(s) • /C = Conductor(s)



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# Sound, Security and Alarm Cables

## Cable Finder Guide — By Construction



| AWG Size                            | No. of Cond. or Pairs | Stranding | Non-Shielded |        |          |          |        |          | Shielded   |        |          |          |        |          |
|-------------------------------------|-----------------------|-----------|--------------|--------|----------|----------|--------|----------|------------|--------|----------|----------|--------|----------|
|                                     |                       |           | Non-Plenum   |        |          | Plenum   |        |          | Non-Plenum |        |          | Plenum   |        |          |
|                                     |                       |           | Part No.     | Rating | Page No. | Part No. | Rating | Page No. | Part No.   | Rating | Page No. | Part No. | Rating | Page No. |
| Pro Audio Plenum, Lower Capacitance |                       |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 18                                  | 2/C                   | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6300FC   | CMP    | 13.27/46 |
|                                     | 4/C                   | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6302FC   | CMP    | 13.27/46 |
|                                     | 2 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6341PC   | CMP    | 13.29    |
|                                     | 3 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6342PC   | CMP    | 13.29    |
|                                     | 4 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6343PC   | CMP    | 13.29    |
|                                     | 6 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6345PC   | CMP    | 13.29    |
| 20                                  | 2/C                   | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6400FC   | CMP    | 13.27/46 |
| 22                                  | 2/C                   | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6500FC   | CMP    | 13.27/46 |
|                                     | 4/C                   | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6502FC   | CMP    | 13.27/46 |
|                                     | 2 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6541PA   | CMP    | 13.29    |
|                                     | 3 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6542PA   | CMP    | 13.29    |
|                                     | 4 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6543PA   | CMP    | 13.29    |
|                                     | 6 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6545PA   | CMP    | 13.29    |
|                                     | 8 STP                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6546PA   | CMP    | 13.29    |
|                                     | 12 STP                | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6548PA   | CMP    | 13.29    |
|                                     | 16 STP                | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6549PA   | CMP    | 13.29    |
| 24                                  | 2 TP*                 | 7         | —            | —      | —        | —        | —      | —        | —          | —      | —        | 6641FC   | CMP    | 13.28    |
| High-Strand Commercial Audio        |                       |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 10                                  | 2/C                   | 65        | 5T00UP       | CL2    | 13.42    | 6T00UP   | CL2P   | 13.44    | —          | —      | —        | —        | —      | —        |
| 12                                  | 2/C                   | 65        | 5000UP       | CL3    | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                     | 4/C                   | 65        | 5002UP       | CL3    | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| 14                                  | 2/C                   | 42        | 5100UP       | CL3    | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                     | 4/C                   | 42        | 5102UP       | CL3    | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| 16                                  | 2/C                   | 65        | 5200UP       | CM     | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                     | 4/C                   | 65        | 5202UP       | CM     | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| 18                                  | 2/C                   | 42        | 5300UP       | CM     | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
|                                     | 4/C                   | 42        | 5302UP       | CM     | 13.42    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| Fire Alarm                          |                       |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 12                                  | 2/C                   | Solid     | 5020UL       | FPLR   | 13.35    | 6020UL   | FPLP   | 13.39    | 5020FL     | FPLR   | 13.36    | 6020FL   | FPLP   | 13.39    |
| 14                                  | 2/C                   | Solid     | 5120UL       | FPLR   | 13.35    | 6120UL   | FPLP   | 13.39    | 5120FL     | FPLR   | 13.36    | 6120FL   | FPLP   | 13.39    |
|                                     | 4/C                   | Solid     | 5122UL       | FPLR   | 13.35    | 6122UL   | FPLP   | 13.39    | 5122FL     | FPLR   | 13.36    | 6122FL   | FPLP   | 13.39    |
| 16                                  | 2/C                   | Solid     | 5220UL       | FPLR   | 13.35    | 6220UL   | FPLP   | 13.39    | 5220FL     | FPLR   | 13.36    | 6220FL   | FPLP   | 13.39    |
|                                     | 4/C                   | Solid     | 5222UL       | FPLR   | 13.35    | 6222UL   | FPLP   | 13.39    | 5222FL     | FPLR   | 13.36    | 6222FL   | FPLP   | 13.39    |
| 18                                  | 2/C                   | Solid     | 5320UL       | FPLR   | 13.35    | 6320UL   | FPLP   | 13.39    | 5320FL     | FPLR   | 13.36    | 6320FL   | FPLP   | 13.39    |
|                                     | 3/C                   | Solid     | —            | —      | —        | 6321UL   | FPLP   | 13.39    | —          | —      | —        | —        | —      | —        |
|                                     | 4/C                   | Solid     | 5322UL       | FPLR   | 13.35    | 6322UL   | FPLP   | 13.39    | 5322FL     | FPLR   | 13.36    | 6322FL   | FPLP   | 13.39    |
|                                     | 6/C                   | Solid     | 5324UL       | FPLR   | 13.35    | 6324UL   | FPLP   | 13.39    | —          | —      | —        | —        | —      | —        |
|                                     | 8/C                   | Solid     | 5326UL       | FPLR   | 13.35    | 6326UL   | FPLP   | 13.39    | —          | —      | —        | —        | —      | —        |
|                                     | 10/C                  | Solid     | 5328UL       | FPLR   | 13.35    | 6328UL   | FPLP   | 13.39    | —          | —      | —        | —        | —      | —        |
|                                     | 12/C                  | Solid     | 5329UL       | FPLR   | 13.35    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| 22                                  | 4/C                   | Solid     | 5522UL       | FPLR   | 13.35    | 6522UL   | FPLP   | 13.39    | 5522FL     | FPLR   | 13.36    | —        | —      | —        |
|                                     | 6/C                   | Solid     | 5524UL       | FPLR   | 13.35    | 6524UL   | FPLP   | 13.39    | —          | —      | —        | —        | —      | —        |
|                                     | 8/C                   | Solid     | 5526UL       | FPLR   | 13.35    | —        | —      | —        | —          | —      | —        | —        | —      | —        |
| Fire Alarm, Mid-Capacitance         |                       |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 12                                  | 2/C                   | Solid     | —            | —      | —        | —        | —      | —        | 5020FJ     | FPL    | 13.37    | —        | —      | —        |
| 14                                  | 2/C                   | Solid     | —            | —      | —        | 6120UJ   | FPLP   | 13.40    | 5120FJ     | FPL    | 13.37    | —        | —      | —        |
| 16                                  | 2/C                   | Solid     | 5220UJ       | FPL    | 13.37    | 6220UJ   | FPLP   | 13.40    | 5220FJ     | FPL    | 13.37    | 6220FK   | FPLP   | 13.40    |
|                                     | 4/C                   | Solid     | —            | —      | —        | —        | —      | —        | 5222FJ     | FPL    | 13.37    | —        | —      | —        |
| 18                                  | 2/C                   | Solid     | 5320UJ       | FPL    | 13.37    | 6320UJ   | FPLP   | 13.40    | 5320FJ     | FPL    | 13.37    | 6320FK   | FPLP   | 13.40    |
|                                     | 4/C                   | Solid     | —            | —      | —        | —        | —      | —        | 5322FJ     | FPL    | 13.37    | —        | —      | —        |
| Fire Alarm, Non-Power-Limited       |                       |           |              |        |          |          |        |          |            |        |          |          |        |          |
| 12                                  | 2/C                   | Solid     | —            | —      | —        | —        | —      | —        | 5020FN     | NPLF   | 13.38    | —        | —      | —        |
| 14                                  | 2/C                   | Solid     | 5120UN       | NPLF   | 13.38    | —        | —      | —        | 5120FN     | NPLF   | 13.38    | —        | —      | —        |
|                                     | 4/C                   | Solid     | —            | —      | —        | —        | —      | —        | 5122FN     | NPLF   | 13.38    | —        | —      | —        |
| 16                                  | 2/C                   | Solid     | 5220UN       | NPLF   | 13.38    | —        | —      | —        | 5220FN     | NPLF   | 13.38    | —        | —      | —        |
|                                     | 4/C                   | Solid     | 5222UN       | NPLF   | 13.38    | —        | —      | —        | 5222FN     | NPLF   | 13.38    | —        | —      | —        |
| 18                                  | 2/C                   | Solid     | 5320UN       | NPLF   | 13.38    | —        | —      | —        | 5320FN     | NPLF   | 13.38    | —        | —      | —        |
|                                     | 4/C                   | Solid     | 5322UN       | NPLF   | 13.38    | —        | —      | —        | 5322FN     | NPLF   | 13.38    | —        | —      | —        |

STP = Shielded Twisted Pair(s) • TP = Twisted Pair(s) • /C = Conductors(s)

\*Overall Shielded





# Sound, Security and Alarm Cables

## Cable Finder Guide — Coax



| Series Type                                                   | AWG Size | Stranding | Non-Plenum |        |                              |          | Plenum   |        |                              |          |
|---------------------------------------------------------------|----------|-----------|------------|--------|------------------------------|----------|----------|--------|------------------------------|----------|
|                                                               |          |           | Part No.   | Rating | Shield/Braid Coverage        | Page No. | Part No. | Rating | Shield/Braid Coverage        | Page No. |
| CCTV Coax                                                     |          |           |            |        |                              |          |          |        |                              |          |
| Mini 59                                                       | 25       | Solid     | 573945     | CM     | 94% Bare Copper              | 13.30    | 673948   | CMP    | 95% Bare Copper              | 13.33    |
| RG-62                                                         | 22       | Solid     | —          | —      | —                            | —        | 6539Y8   | CMP    | 95% Bare Copper              | 13.33    |
| RG-59/U                                                       | 22       | 7         | 551945     | CM     | 95% Bare Copper              | 13.30    | —        | —      | —                            | —        |
|                                                               | 20       | Solid     | 543945     | CM     | 95% Bare Copper              | 13.30    | 643948   | CMP    | 95% Bare Copper              | 13.33    |
| RG-6/U                                                        | 18       | Solid     | 533945     | CM     | 95% Bare Copper              | 13.30    | 633948   | CMP    | 95% Bare Copper              | 13.33    |
| RG-11/U                                                       | 14       | Solid     | 513945     | CM     | 95% Bare Copper              | 13.30    | 613948   | CMP    | 95% Bare Copper              | 13.33    |
| CCTV Coax, Water-blocked                                      |          |           |            |        |                              |          |          |        |                              |          |
| RG-59/U                                                       | 20       | Solid     | 5439W5     | CM     | Duofoil® + 95% TC            | 13.30    | —        | —      | —                            | —        |
| RG-6/U                                                        | 18       | Solid     | 5339W5     | CM     | Duofoil + 60% Aluminum       | 13.30    | —        | —      | —                            | —        |
| CATV Coax                                                     |          |           |            |        |                              |          |          |        |                              |          |
| RG-59/U                                                       | 20       | Solid     | —          | —      | —                            | —        | 6439C8   | CMP    | Duofoil + 80% Aluminum       | 13.34    |
|                                                               | 20       | Solid     | —          | —      | —                            | —        | 6439Q8   | CMP    | Copper Quad Shield           | 13.34    |
| RG-6/U                                                        | 18       | Solid     | 5339B5     | CM     | Duofoil + 60% Aluminum       | 13.31    | 633938   | CMP    | Duofoil + 80% Aluminum       | 13.34    |
|                                                               | 18       | Solid     | 5339Q5     | CM     | Aluminum Quad Shield         | 13.31    | 6339Q8   | CMP    | Copper Quad Shield           | 13.34    |
| RG-11/U                                                       | 14       | Solid     | —          | —      | —                            | —        | 6139B8   | CMP    | Duofoil + 60% Aluminum       | 13.34    |
| Schlage Coax                                                  |          |           |            |        |                              |          |          |        |                              |          |
| RG-6/U                                                        | 18       | Solid     | 5399B5     | CM     | Duobond® + 60% Alum.         | 13.31    | —        | —      | —                            | —        |
| Composite CCTV Coax with Unshielded Pair for Control or Audio |          |           |            |        |                              |          |          |        |                              |          |
| RG-59                                                         | 20 +18TP | Solid + 7 | 549945     | CM     | 95% Bare Copper + Unshielded | 13.32    | 649948   | CMP    | 95% Bare Copper + Unshielded | 13.32    |
| RG-6                                                          | 18 +18TP | Solid + 7 | 539945     | CM     | 95% Bare Copper + Unshielded | 13.32    | 639948   | CMP    | 95% Bare Copper + Unshielded | 13.32    |

TC = Tinned Copper • TP = Twisted Pair(s)



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# Security and Alarm Cable

Residential, Light Commercial and Institutional Applications



## Unshielded Multi-conductor

CM FT1 Rated

### Product Description

Bare copper conductors, polypropylene insulation, PVC jacket. Available in Beige, Brown, Orange, Yellow, Green, Blue, Violet, Gray or Natural jacket colors (except as noted in footnote). Conductors may not be cabled. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Polypropylene  |
| <b>Insulation Thickness</b> | .006" (.152mm) |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CM             |
| CEC                         | CM FT1         |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone

### Solid Conductor



### Stranded Conductor



### Color Code Chart<sup>††</sup>

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | Red   |
| 3         | White |
| 4         | Green |

<sup>††</sup>Except 5582UG which is Black, Red, Yellow, Green for use as station wire.

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Unshielded Multi-conductor (NEC CM and CEC CM FT1)

| 22 AWG                                |   |       |        |       |      |     |      |     |      |      |
|---------------------------------------|---|-------|--------|-------|------|-----|------|-----|------|------|
| <b>5500UG</b><br><small>new</small>   | 2 | 7     | U-500  | U-152 | 5.0  | 2.3 | .015 | .38 | .114 | 2.90 |
|                                       |   |       | U-1000 | U-305 | 9.0  | 4.1 |      |     |      |      |
| <b>5582UG*</b><br><small>new</small>  | 4 | solid | U-500  | U-152 | 7.0  | 3.2 | .015 | .38 | .122 | 3.10 |
|                                       |   |       | U-1000 | U-305 | 13.0 | 5.9 |      |     |      |      |
| <b>5502UG**</b><br><small>new</small> | 4 | 7     | U-500  | U-152 | 7.5  | 3.4 | .015 | .38 | .131 | 3.33 |
|                                       |   |       | U-1000 | U-305 | 14.0 | 6.4 |      |     |      |      |
| 18 AWG                                |   |       |        |       |      |     |      |     |      |      |
| <b>5300UG†</b><br><small>new</small>  | 2 | 7     | U-500  | U-152 | 8.5  | 3.9 | .015 | .38 | .148 | 3.76 |
|                                       |   |       | U-1000 | U-305 | 16.0 | 7.3 |      |     |      |      |

\* 5582UG available in Beige, Brown, Gray or Natural only.

\*\* 5502UG not available in Orange.

† 5300UG available in Black, Gray or Natural only.



# Security and Alarm Cable

## Commercial Applications



### Unshielded Multi-conductor

CMR/CMG FT4 Rated

#### Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket. Sequential footage marking every two feet.

**Color Code:** See chart below.

#### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> | .010" (.254mm) |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CMR            |
| CEC                         | CMG FT4        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

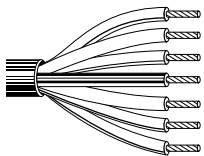
#### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone

#### Solid Conductor



#### Stranded Conductor



#### Color Code Chart††

| Cond. No. | Color  | Cond. No. | Color        |
|-----------|--------|-----------|--------------|
| 1         | Black  | 11        | Pink         |
| 2         | Red    | 12        | Tan          |
| 3         | White  | 13        | White/Black  |
| 4         | Green  | 14        | White/Red    |
| 5         | Brown  | 15        | White/Green  |
| 6         | Blue   | 16        | White/Orange |
| 7         | Orange | 17        | White/Blue   |
| 8         | Yellow | 18        | White/Brown  |
| 9         | Purple | 19        | White/Yellow |
| 10        | Gray   | 20        | White/Violet |

††Except 5582UE which is Black, Red, Yellow, Green for use as station wire.

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Unshielded Multi-conductor (NEC CMR and CEC CMG FT4)

|                           |    |       |                                |                              |                              |                            |      |     |      |      |
|---------------------------|----|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| <b>22 AWG</b>             |    |       |                                |                              |                              |                            |      |     |      |      |
| 5520UE                    | 2  | solid | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 5.0<br>9.0<br>9.0            | 2.3<br>4.1<br>4.1          | .015 | .38 | .122 | 3.10 |
| 5500UE                    | 2  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 5.5<br>5.5<br>10.0<br>9.0    | 2.5<br>2.5<br>4.5<br>4.1   | .015 | .38 | .128 | 3.25 |
| 5501UE                    | 3  | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 6.5<br>13.0<br>13.0          | 3.0<br>5.9<br>5.9          | .015 | .38 | .135 | 3.43 |
| 5522UE <small>new</small> | 4  | solid | U-1000<br>1000                 | U-305<br>305                 | 16.0<br>16.0                 | 7.3<br>7.3                 | .015 | .38 | .141 | 3.58 |
| 5582UE*                   | 4  | solid | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 6.5<br>12.0<br>12.0          | 3.0<br>5.5<br>5.5          | .015 | .38 | .141 | 3.58 |
| 5502UE**                  | 4  | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 8.5<br>16.0<br>17.0          | 3.9<br>7.3<br>7.7          | .015 | .38 | .148 | 3.76 |
| 5503UE <small>new</small> | 5  | 7     | U-1000<br>1000                 | U-305<br>305                 | 20.0<br>20.0                 | 9.1<br>9.1                 | .015 | .38 | .162 | 4.11 |
| 5524UE <small>new</small> | 6  | solid | 1000                           | 305                          | 22.0                         | 10.0                       | .015 | .38 | .168 | 4.27 |
| 5504UE**                  | 6  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 14.0<br>13.5<br>27.0<br>27.0 | 6.4<br>6.1<br>12.3<br>12.3 | .015 | .38 | .177 | 4.50 |
| 5526UE <small>new</small> | 8  | solid | 1000                           | 305                          | 28.0                         | 12.7                       | .015 | .38 | .182 | 4.62 |
| 5506UE                    | 8  | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 15.0<br>30.0<br>29.0         | 6.8<br>13.6<br>13.2        | .015 | .38 | .192 | 4.88 |
| 5508UE                    | 10 | 7     | U-1000<br>1000                 | U-305<br>305                 | 37.0<br>41.0                 | 16.8<br>18.6               | .015 | .38 | .226 | 5.74 |
| 5529UE                    | 12 | solid | U-1000<br>1000                 | U-305<br>305                 | 41.0<br>46.0                 | 18.6<br>20.9               | .015 | .38 | .221 | 5.61 |
| 5509UE                    | 12 | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 21.5<br>42.0<br>47.0         | 9.8<br>19.1<br>21.4        | .015 | .38 | .233 | 5.92 |
| <b>20 AWG</b>             |    |       |                                |                              |                              |                            |      |     |      |      |
| 5400UE                    | 2  | 7     | U-1000<br>1000                 | U-305<br>305                 | 13.0<br>13.0                 | 5.9<br>5.9                 | .015 | .38 | .142 | 3.61 |
| 5401UE                    | 3  | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 9.0<br>18.0<br>18.0          | 4.1<br>8.2<br>8.2          | .015 | .38 | .150 | 3.81 |
| 5402UE                    | 4  | 7     | U-1000<br>1000                 | U-305<br>305                 | 23.0<br>23.0                 | 10.5<br>10.5               | .015 | .38 | .165 | 4.19 |
| 5403UE                    | 5  | 7     | U-1000<br>1000                 | U-305<br>305                 | 28.0<br>28.0                 | 12.7<br>12.7               | .015 | .38 | .181 | 4.60 |
| 5405UE <small>new</small> | 7  | 7     | 500<br>1000                    | 152<br>305                   | 19.0<br>40.0                 | 8.6<br>18.2                | .015 | .38 | .198 | 5.03 |
| 5406UE <small>new</small> | 8  | 7     | U-1000<br>1000                 | U-305<br>305                 | 41.0<br>44.0                 | 18.6<br>20.0               | .015 | .38 | .215 | 5.46 |
| 5407UE <small>new</small> | 9  | 7     | 1000                           | 305                          | 52.0                         | 23.6                       | .015 | .38 | .233 | 5.92 |
| 5408UE <small>new</small> | 10 | 7     | 1000                           | 305                          | 53.0                         | 24.1                       | .015 | .38 | .254 | 6.45 |
| 5409UE <small>new</small> | 12 | 7     | 1000                           | 305                          | 62.0                         | 28.2                       | .015 | .38 | .262 | 6.65 |
| 540BUE <small>new</small> | 20 | 7     | 1000                           | 305                          | 109.0                        | 49.5                       | .025 | .64 | .347 | 8.81 |

\* 5582UE also available in Beige, Brown or White.

\*\* 5502UE and 5504UE also available in White.



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1-800-527-0010

# Security and Alarm Cable

## Commercial Applications



### Unshielded Multi-conductor (cont'd.)

CMR/CMG FT4 Rated

#### Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

#### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> | .010" (.254mm) |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CMR            |
| CEC                         | CMG FT4        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

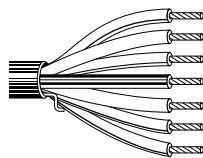
#### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone

#### Solid Conductor



#### Stranded Conductor



#### Color Code Chart

| Cond. No. | Color  | Cond. No. | Color        |
|-----------|--------|-----------|--------------|
| 1         | Black  | 11        | Pink         |
| 2         | Red    | 12        | Tan          |
| 3         | White  | 13        | White/Black  |
| 4         | Green  | 14        | White/Red    |
| 5         | Brown  | 15        | White/Green  |
| 6         | Blue   | 16        | White/Orange |
| 7         | Orange | 17        | White/Blue   |
| 8         | Yellow | 18        | White/Brown  |
| 9         | Purple | 19        | White/Yellow |
| 10        | Gray   | 20        | White/Violet |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Unshielded Multi-conductor (NEC CMR and CEC CMG FT4)

|                           |    |       |        |       |       |      |      |     |      |       |
|---------------------------|----|-------|--------|-------|-------|------|------|-----|------|-------|
| <b>18 AWG</b>             |    |       |        |       |       |      |      |     |      |       |
| 5320UE                    | 2  | solid | U-1000 | U-305 | 17.0  | 7.7  | .015 | .38 | .151 | 3.84  |
| 5300UE*                   | 2  | 7     | U-500  | U-152 | 9.0   | 4.1  | .015 | .38 | .161 | 4.09  |
|                           |    |       | 500    | 152   | 9.5   | 4.3  |      |     |      |       |
|                           |    |       | U-1000 | U-305 | 18.0  | 8.2  |      |     |      |       |
|                           |    |       | 1000   | 305   | 18.0  | 8.2  |      |     |      |       |
| 5321UE                    | 3  | solid | 500    | 152   | 11.5  | 5.2  | .015 | .38 | .160 | 4.06  |
|                           |    |       | U-1000 | U-305 | 23.0  | 10.5 |      |     |      |       |
|                           |    |       | 1000   | 305   | 23.0  | 10.5 |      |     |      |       |
|                           |    |       |        |       |       |      |      |     |      |       |
| 5301UE                    | 3  | 7     | U-500  | U-152 | 13.0  | 5.9  | .015 | .38 | .171 | 4.34  |
|                           |    |       | 500    | 152   | 12.5  | 5.7  |      |     |      |       |
|                           |    |       | U-1000 | U-305 | 24.0  | 10.9 |      |     |      |       |
|                           |    |       | 1000   | 305   | 25.0  | 11.4 |      |     |      |       |
| 5322UE <small>new</small> | 4  | solid | 1000   | 305   | 30.0  | 13.6 | .015 | .38 | .176 | 4.47  |
|                           |    |       |        |       |       |      |      |     |      |       |
| 5302UE                    | 4  | 7     | U-500  | U-152 | 16.0  | 7.3  | .015 | .38 | .188 | 4.78  |
|                           |    |       | 500    | 152   | 16.0  | 7.3  |      |     |      |       |
|                           |    |       | U-1000 | U-305 | 32.0  | 14.5 |      |     |      |       |
|                           |    |       | 1000   | 305   | 32.0  | 14.5 |      |     |      |       |
| 5303UE                    | 5  | 7     | 500    | 152   | 20.5  | 9.3  | .015 | .38 | .207 | 5.26  |
|                           |    |       | U-1000 | U-305 | 39.0  | 17.7 |      |     |      |       |
|                           |    |       | 1000   | 305   | 39.0  | 17.7 |      |     |      |       |
|                           |    |       |        |       |       |      |      |     |      |       |
| 5304UE                    | 6  | 7     | 500    | 152   | 26.0  | 11.8 | .015 | .38 | .226 | 5.74  |
|                           |    |       | U-1000 | U-305 | 51.0  | 23.2 |      |     |      |       |
|                           |    |       | 1000   | 305   | 56.0  | 25.5 |      |     |      |       |
|                           |    |       |        |       |       |      |      |     |      |       |
| 5305UE <small>new</small> | 7  | 7     | U-1000 | U-305 | 51.0  | 23.2 | .015 | .38 | .226 | 5.74  |
|                           |    |       | 1000   | 305   | 52.0  | 23.6 |      |     |      |       |
| 5306UE                    | 8  | 7     | 500    | 152   | 29.5  | 13.4 | .015 | .38 | .248 | 6.30  |
|                           |    |       | 1000   | 305   | 59.0  | 26.8 |      |     |      |       |
| 5307UE                    | 9  | 7     | 1000   | 305   | 66.0  | 30.0 | .015 | .38 | .269 | 6.83  |
| 5308UE                    | 10 | 7     | 500    | 152   | 38.5  | 17.5 | .015 | .38 | .294 | 7.47  |
|                           |    |       | 1000   | 305   | 74.0  | 33.6 |      |     |      |       |
| 5309UE                    | 12 | 7     | 500    | 152   | 47.5  | 21.6 | .020 | .51 | .314 | 7.98  |
|                           |    |       | 1000   | 305   | 90.0  | 40.9 |      |     |      |       |
| 530BUE <small>new</small> | 20 | 7     | 1000   | 305   | 151.0 | 68.6 | .025 | .64 | .400 | 10.16 |
| <b>16 AWG</b>             |    |       |        |       |       |      |      |     |      |       |
| 5200UE                    | 2  | 19    | U-500  | U-152 | 13.0  | 5.9  | .015 | .38 | .184 | 4.67  |
|                           |    |       | 500    | 152   | 12.5  | 5.7  |      |     |      |       |
|                           |    |       | U-1000 | U-305 | 25.0  | 11.4 |      |     |      |       |
|                           |    |       | 1000   | 305   | 25.0  | 11.4 |      |     |      |       |
| 5201UE                    | 3  | 19    | U-500  | U-152 | 18.0  | 8.2  | .015 | .38 | .196 | 4.98  |
|                           |    |       | 500    | 152   | 18.5  | 8.4  |      |     |      |       |
|                           |    |       | U-1000 | U-305 | 35.0  | 15.9 |      |     |      |       |
|                           |    |       | 1000   | 305   | 38.0  | 17.3 |      |     |      |       |
| 5202UE                    | 4  | 19    | U-500  | U-152 | 23.0  | 10.5 | .015 | .38 | .216 | 5.49  |
|                           |    |       | 500    | 152   | 23.5  | 10.7 |      |     |      |       |
|                           |    |       | U-1000 | U-305 | 46.0  | 20.9 |      |     |      |       |
|                           |    |       | 1000   | 305   | 51.0  | 23.2 |      |     |      |       |
| 5205UE <small>new</small> | 7  | 19    | 1000   | 305   | 77.0  | 35.0 | .015 | .38 | .261 | 6.63  |

\*5300UE also available in White or Black.



# Security and Alarm Cable

## Commercial Applications



### Unshielded Multi-conductor

CL3R Rated

#### Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

#### Specifications

|                      |                |
|----------------------|----------------|
| Conductor            | Bare Copper    |
| Insulation           | PVC            |
| Insulation Thickness | .014" (.356mm) |
| Jacket               | PVC            |
| Approvals            |                |
| NEC                  | CL3R           |
| NEC Articles         | 725            |
| Voltage Rating       | 300V           |
| Temperature Rating   | 75°C           |

#### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Single Line Telephone



| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Unshielded Multi-conductor (NEC CL3R)

| 14 AWG |   |    |        |       |      |      |      |     |      |      |
|--------|---|----|--------|-------|------|------|------|-----|------|------|
| 5100UE | 2 | 19 | 500    | 152   | 19.5 | 8.9  | .015 | .38 | .234 | 5.94 |
|        |   |    | U-1000 | U-305 | 38.0 | 17.3 |      |     |      |      |
|        |   |    | 1000   | 305   | 39.0 | 17.7 |      |     |      |      |
| 5101UE | 3 | 19 | 1000   | 305   | 56.0 | 25.5 | .015 | .38 | .249 | 6.32 |
| 5102UE | 4 | 19 | 500    | 152   | 38.5 | 17.5 | .015 | .38 | .276 | 7.01 |
|        |   |    | 1000   | 305   | 73.0 | 33.2 |      |     |      |      |
| 12 AWG |   |    |        |       |      |      |      |     |      |      |
| 5000UE | 2 | 19 | 500    | 152   | 28.5 | 13.0 | .015 | .38 | .268 | 6.81 |
|        |   |    | 1000   | 305   | 57.0 | 25.9 |      |     |      |      |
| 5001UE | 3 | 19 | 1000   | 305   | 82.0 | 37.3 | .015 | .38 | .286 | 7.26 |

#### Color Code Chart

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | White |
| 3         | Red   |
| 4         | Green |



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# Security and Alarm Cable

Commercial Applications  
Shielded



## Shielded Multi-conductor CMR/CMG FT4 Rated

### Product Description

Bare copper conductors, PVC insulation, cabled, Beldfoil® shield tape (aluminum side out) with drain wire, Gray PVC jacket. Sequential footage marking every two feet.

**Color Code:** See chart below.

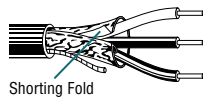
### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> | .010" (.254mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CMR            |
| CEC                         | CMG FT4        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

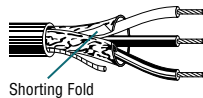
### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

### Solid Conductor



### Stranded Conductor



### Color Code Chart

| Cond. No. | Color  |
|-----------|--------|
| 1         | Black  |
| 2         | Red    |
| 3         | White  |
| 4         | Green  |
| 5         | Brown  |
| 6         | Blue   |
| 7         | Orange |
| 8         | Yellow |
| 9         | Purple |
| 10        | Gray   |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Shielded Multi-conductor (NEC CMR and CEC CMG FT4)

#### 24 AWG

|                                     |   |   |                |              |              |            |      |     |      |      |
|-------------------------------------|---|---|----------------|--------------|--------------|------------|------|-----|------|------|
| <b>5600FE</b><br><small>new</small> | 2 | 7 | U-1000<br>1000 | U-305<br>305 | 11.0<br>10.0 | 5.0<br>4.5 | .015 | .38 | .120 | 3.05 |
|-------------------------------------|---|---|----------------|--------------|--------------|------------|------|-----|------|------|

#### 22 AWG

|               |   |       |                |              |              |            |      |     |      |      |
|---------------|---|-------|----------------|--------------|--------------|------------|------|-----|------|------|
| <b>5520FE</b> | 2 | solid | U-1000<br>1000 | U-305<br>305 | 14.0<br>14.0 | 6.4<br>6.4 | .015 | .38 | .125 | 3.18 |
|---------------|---|-------|----------------|--------------|--------------|------------|------|-----|------|------|

|               |   |   |                                |                              |                            |                          |      |     |      |      |
|---------------|---|---|--------------------------------|------------------------------|----------------------------|--------------------------|------|-----|------|------|
| <b>5500FE</b> | 2 | 7 | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 6.5<br>6.0<br>12.0<br>11.0 | 3.0<br>2.7<br>5.5<br>5.0 | .015 | .38 | .130 | 3.30 |
|---------------|---|---|--------------------------------|------------------------------|----------------------------|--------------------------|------|-----|------|------|

|               |   |       |                |              |              |            |      |     |      |      |
|---------------|---|-------|----------------|--------------|--------------|------------|------|-----|------|------|
| <b>5521FE</b> | 3 | solid | U-1000<br>1000 | U-305<br>305 | 12.0<br>12.0 | 5.5<br>5.5 | .015 | .38 | .132 | 3.35 |
|---------------|---|-------|----------------|--------------|--------------|------------|------|-----|------|------|

|               |   |   |                                |                              |                            |                          |      |     |      |      |
|---------------|---|---|--------------------------------|------------------------------|----------------------------|--------------------------|------|-----|------|------|
| <b>5501FE</b> | 3 | 7 | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 7.5<br>8.0<br>15.0<br>15.0 | 3.6<br>3.4<br>6.8<br>6.8 | .015 | .38 | .138 | 3.51 |
|---------------|---|---|--------------------------------|------------------------------|----------------------------|--------------------------|------|-----|------|------|

|               |   |   |                                |                              |                             |                          |      |     |      |      |
|---------------|---|---|--------------------------------|------------------------------|-----------------------------|--------------------------|------|-----|------|------|
| <b>5502FE</b> | 4 | 7 | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 10.0<br>9.5<br>18.0<br>19.0 | 4.5<br>4.3<br>8.2<br>8.6 | .015 | .38 | .152 | 3.86 |
|---------------|---|---|--------------------------------|------------------------------|-----------------------------|--------------------------|------|-----|------|------|

|                                     |   |   |      |     |      |      |      |     |      |      |
|-------------------------------------|---|---|------|-----|------|------|------|-----|------|------|
| <b>5503FE</b><br><small>new</small> | 5 | 7 | 1000 | 305 | 22.0 | 10.0 | .015 | .38 | .165 | 4.19 |
|-------------------------------------|---|---|------|-----|------|------|------|-----|------|------|

|               |   |   |                         |                       |                      |                     |      |     |      |      |
|---------------|---|---|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|------|
| <b>5504FE</b> | 6 | 7 | U-500<br>U-1000<br>1000 | U-152<br>U-305<br>305 | 15.0<br>29.0<br>29.0 | 6.8<br>13.2<br>13.2 | .015 | .38 | .179 | 4.55 |
|---------------|---|---|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|------|

|               |   |   |                         |                       |                      |                     |      |     |      |      |
|---------------|---|---|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|------|
| <b>5506FE</b> | 8 | 7 | U-500<br>U-1000<br>1000 | U-152<br>U-305<br>305 | 16.5<br>32.0<br>32.0 | 7.5<br>14.5<br>14.5 | .015 | .38 | .196 | 4.98 |
|---------------|---|---|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|------|

|               |    |   |                         |                       |                      |                     |      |     |      |      |
|---------------|----|---|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|------|
| <b>5508FE</b> | 10 | 7 | U-500<br>U-1000<br>1000 | U-152<br>U-305<br>305 | 20.0<br>39.0<br>44.0 | 9.1<br>17.7<br>20.0 | .015 | .38 | .230 | 5.84 |
|---------------|----|---|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|------|

#### 20 AWG

|               |   |   |                                |                              |                            |                          |      |     |      |      |
|---------------|---|---|--------------------------------|------------------------------|----------------------------|--------------------------|------|-----|------|------|
| <b>5400FE</b> | 2 | 7 | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 8.5<br>8.0<br>16.0<br>16.0 | 3.9<br>3.6<br>7.3<br>7.3 | .015 | .38 | .145 | 3.68 |
|---------------|---|---|--------------------------------|------------------------------|----------------------------|--------------------------|------|-----|------|------|

|               |   |   |                                |                              |                              |                          |      |     |      |      |
|---------------|---|---|--------------------------------|------------------------------|------------------------------|--------------------------|------|-----|------|------|
| <b>5401FE</b> | 3 | 7 | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 11.0<br>10.5<br>21.0<br>21.0 | 5.0<br>4.8<br>9.5<br>9.5 | .015 | .38 | .153 | 3.89 |
|---------------|---|---|--------------------------------|------------------------------|------------------------------|--------------------------|------|-----|------|------|

|               |   |   |                                |                              |                              |                            |      |     |      |      |
|---------------|---|---|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| <b>5402FE</b> | 4 | 7 | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 13.5<br>13.0<br>26.0<br>26.0 | 6.1<br>5.9<br>11.8<br>11.8 | .015 | .38 | .168 | 4.27 |
|---------------|---|---|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|

|               |   |   |                |              |              |              |      |     |      |      |
|---------------|---|---|----------------|--------------|--------------|--------------|------|-----|------|------|
| <b>5403FE</b> | 5 | 7 | U-1000<br>1000 | U-305<br>305 | 30.0<br>30.0 | 13.6<br>13.6 | .015 | .38 | .184 | 4.67 |
|---------------|---|---|----------------|--------------|--------------|--------------|------|-----|------|------|

|                                     |   |   |                |              |              |              |      |     |      |      |
|-------------------------------------|---|---|----------------|--------------|--------------|--------------|------|-----|------|------|
| <b>5405FE</b><br><small>new</small> | 7 | 7 | U-1000<br>1000 | U-305<br>305 | 40.0<br>40.0 | 18.2<br>18.2 | .015 | .38 | .201 | 5.11 |
|-------------------------------------|---|---|----------------|--------------|--------------|--------------|------|-----|------|------|

|                                     |   |   |      |     |      |      |      |     |      |      |
|-------------------------------------|---|---|------|-----|------|------|------|-----|------|------|
| <b>5407FE</b><br><small>new</small> | 9 | 7 | 1000 | 305 | 55.0 | 25.0 | .015 | .38 | .236 | 5.99 |
|-------------------------------------|---|---|------|-----|------|------|------|-----|------|------|



# Security and Alarm Cable

Commercial Applications

Shielded



## Shielded Multi-conductor (cont'd.)

CMR/CMG FT4 Rated or CL3R Rated

### Product Description

Bare copper conductors, PVC insulation, cabled, Beldfoil® shield tape (aluminum side out) with drain wire, Gray PVC jacket. Sequential footage marking every two feet.

**Color Code:** See chart below.

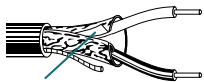
### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> |                |
| 18 to 16 AWG                | .010" (.254mm) |
| 14 to 12 AWG                | .014" (.356mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC (18 to 16 AWG)          | CMR            |
| CEC (18 to 16 AWG)          | CMG FT4        |
| NEC (14 to 12 AWG)          | CL3R           |
| <b>NEC Articles</b>         |                |
| 18 to 16 AWG                | 800            |
| 14 to 12 AWG                | 725            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

### Solid Conductor



Shorting Fold

### Stranded Conductor



Shorting Fold

### Color Code Chart (18 to 16 AWG)

| Cond. No. | Color | Cond. No. | Color  |
|-----------|-------|-----------|--------|
| 1         | Black | 6         | Blue   |
| 2         | Red   | 7         | Orange |
| 3         | White | 8         | Yellow |
| 4         | Green | 9         | Purple |
| 5         | Brown | 10        | Gray   |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Shielded Multi-conductor (NEC CMR and CEC CMG FT4)

|                              |   |       |                                |                              |                              |                              |      |     |      |      |
|------------------------------|---|-------|--------------------------------|------------------------------|------------------------------|------------------------------|------|-----|------|------|
| <b>18 AWG</b>                |   |       |                                |                              |                              |                              |      |     |      |      |
| 5320FE                       | 2 | solid | U-1000<br>1000                 | U-305<br>305                 | 21.0<br>21.0                 | 9.5<br>9.5                   | .015 | .38 | .155 | 3.94 |
| 5300FE                       | 2 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 11.5<br>11.0<br>22.0<br>22.0 | 5.2<br>5.0<br>10.0<br>10.0   | .015 | .38 | .165 | 4.19 |
| 5301FE                       | 3 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 15.0<br>15.0<br>29.0<br>30.0 | 6.8<br>6.8<br>13.2<br>13.6   | .015 | .38 | .175 | 4.45 |
| 5302FE                       | 4 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 18.5<br>20.5<br>37.0<br>37.0 | 8.4<br>9.3<br>16.8<br>16.8   | .015 | .38 | .192 | 4.88 |
| 5303FE                       | 5 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 22.0<br>22.5<br>44.0<br>45.0 | 10.0<br>10.2<br>20.0<br>20.5 | .015 | .38 | .211 | 5.36 |
| 5304FE                       | 6 | 7     | U-500<br>500<br>1000           | U-152<br>152<br>305          | 28.0<br>28.5<br>61.0         | 12.7<br>13.0<br>27.7         | .015 | .38 | .230 | 5.84 |
| 5305FE<br><small>NEW</small> | 7 | 7     | 1000                           | 305                          | 57.0                         | 25.9                         | .015 | .38 | .230 | 5.84 |
| 5306FE*                      | 8 | 7     | 500<br>1000                    | 152<br>305                   | 32.0<br>64.0                 | 14.5<br>29.1                 | .015 | .38 | .270 | 6.86 |
| 5307FE                       | 9 | 7     | 1000                           | 305                          | 71.0                         | 32.3                         | .015 | .38 | .272 | 6.91 |
| <b>16 AWG</b>                |   |       |                                |                              |                              |                              |      |     |      |      |
| 5200FE                       | 2 | 19    | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 16.5<br>18.0<br>32.0<br>32.0 | 7.5<br>8.2<br>14.5<br>14.5   | .015 | .38 | .188 | 4.78 |
| 5201FE                       | 3 | 19    | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 22.0<br>43.0<br>42.0         | 10.0<br>19.5<br>19.1         | .015 | .38 | .200 | 5.08 |
| 5202FE                       | 4 | 19    | 500<br>1000                    | 152<br>305                   | 27.0<br>58.0                 | 12.3<br>26.4                 | .015 | .38 | .220 | 5.59 |

### Shielded Multi-conductor (NEC CL3R)

|               |   |    |                       |                     |                      |                      |      |     |      |      |
|---------------|---|----|-----------------------|---------------------|----------------------|----------------------|------|-----|------|------|
| <b>14 AWG</b> |   |    |                       |                     |                      |                      |      |     |      |      |
| 5100FE        | 2 | 19 | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 28.0<br>48.0<br>53.0 | 12.7<br>21.8<br>24.1 | .015 | .38 | .238 | 6.05 |
| 5101FE        | 3 | 19 | 1000                  | 305                 | 66.0                 | 30.0                 | .015 | .38 | .253 | 6.43 |
| <b>12 AWG</b> |   |    |                       |                     |                      |                      |      |     |      |      |
| 5000FE        | 2 | 19 | 500<br>1000           | 152<br>305          | 36.5<br>67.0         | 16.6<br>30.5         | .015 | .38 | .272 | 6.91 |

\*5306FE also available in Natural.

(14 to 12 AWG)

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | White |
| 3         | Red   |



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1-800-527-0010

## Security and Alarm Cable

Water-Blocked for Use in Underground Ducts  
Unshielded and Shielded



**Water-blocked,  
Unshielded Multi-conductor**  
CM FT1 Rated

### Product Description

Tinned copper conductors, PVC insulation, cabled with overall water-blocking tape, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

**Water-blocked,  
Shielded Multi-conductor**  
CM FT1 Rated

### Product Description

Tinned copper conductors, PVC insulation, cabled with overall Beldfoil® shield and drain wire, overall water-blocking tape, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** Black, Red.

### Specifications

|                                  |                |
|----------------------------------|----------------|
| <b>Conductor</b>                 | Tinned Copper  |
| <b>Insulation</b>                | PVC            |
| <b>Insulation Thickness</b>      | .010" (.254mm) |
| <b>Shield (where applicable)</b> | Beldfoil       |
| <b>Jacket</b>                    | PVC            |
| <b>Approvals</b>                 |                |
| NEC                              | CM             |
| CEC                              | CM FT1         |
| <b>NEC Articles</b>              | 800            |
| <b>Voltage Rating</b>            | 300V           |
| <b>Temperature Rating</b>        | 105°C          |

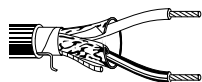
### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Indoor or Outdoor Use

### Unshielded Water-blocked



### Shielded and Water-blocked



| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Water-blocked, Unshielded Multi-conductor (NEC CM and CEC CM FT1)

#### 18 AWG

|                                     |   |   |        |       |      |      |      |     |      |      |
|-------------------------------------|---|---|--------|-------|------|------|------|-----|------|------|
| <b>5300U1</b><br><small>new</small> | 2 | 7 | U-500  | U-152 | 12.0 | 5.5  | .025 | .64 | .207 | 5.26 |
|                                     |   |   | 500    | 152   | 13.5 | 6.1  |      |     |      |      |
|                                     |   |   | U-1000 | U-305 | 23.0 | 10.5 |      |     |      |      |
|                                     |   |   | 1000   | 305   | 24.0 | 10.9 |      |     |      |      |

### Water-blocked, Shielded Multi-conductor (NEC CM and CEC CM FT1)

#### 22 AWG

|                                     |   |   |        |       |      |     |      |     |      |      |
|-------------------------------------|---|---|--------|-------|------|-----|------|-----|------|------|
| <b>5500F1</b><br><small>new</small> | 2 | 7 | U-500  | U-152 | 9.0  | 4.1 | .025 | .64 | .192 | 4.88 |
|                                     |   |   | 500    | 152   | 9.0  | 4.1 |      |     |      |      |
|                                     |   |   | U-1000 | U-305 | 17.0 | 7.7 |      |     |      |      |
|                                     |   |   | 1000   | 305   | 17.0 | 7.7 |      |     |      |      |

#### 20 AWG

|                                     |   |   |        |       |      |      |      |     |      |      |
|-------------------------------------|---|---|--------|-------|------|------|------|-----|------|------|
| <b>5400F1</b><br><small>new</small> | 2 | 7 | U-500  | U-152 | 11.0 | 5.0  | .025 | .64 | .206 | 5.23 |
|                                     |   |   | 500    | 152   | 10.5 | 4.8  |      |     |      |      |
|                                     |   |   | U-1000 | U-305 | 22.0 | 10.0 |      |     |      |      |
|                                     |   |   | 1000   | 305   | 21.0 | 9.5  |      |     |      |      |

#### 18 AWG

|                                     |   |   |        |       |      |      |      |     |      |      |
|-------------------------------------|---|---|--------|-------|------|------|------|-----|------|------|
| <b>5300F1</b><br><small>new</small> | 2 | 7 | U-500  | U-152 | 15.0 | 6.8  | .025 | .64 | .222 | 5.64 |
|                                     |   |   | 500    | 152   | 15.0 | 6.8  |      |     |      |      |
|                                     |   |   | U-1000 | U-305 | 29.0 | 13.2 |      |     |      |      |
|                                     |   |   | 1000   | 305   | 29.0 | 13.2 |      |     |      |      |

# Security and Alarm Cable

## Commercial Applications



### Unshielded Twisted Pairs

CMR/CMG FT4 Rated

#### Product Description

Bare copper conductors, PVC insulation.  
Conductors twisted into pairs, multiple pairs  
cabled together, Gray PVC jacket with rip cord.  
Sequential footage marking every two feet.

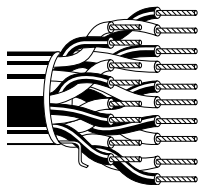
**Color Code:** See chart below.

#### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> | .010" (.254mm) |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CMR            |
| CEC                         | CMG FT4        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

#### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



| Part No. | No. of Pairs | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Unshielded Twisted Pairs (NEC CMR and CEC CMG FT4)

| 22 AWG                       |   |   |                         |                       |                      |                     |      |     |      |       |
|------------------------------|---|---|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|-------|
| 5541UE                       | 2 | 7 | U-1000<br>1000          | U-305<br>305          | 19.0<br>19.0         | 8.6<br>8.6          | .015 | .38 | .206 | 5.23  |
| 5542UE                       | 3 | 7 | U-500<br>U-1000<br>1000 | U-152<br>U-305<br>305 | 13.0<br>25.0<br>25.0 | 5.9<br>11.4<br>11.4 | .015 | .38 | .220 | 5.59  |
| 5543UE<br><small>new</small> | 4 | 7 | U-1000<br>1000          | U-305<br>305          | 32.0<br>32.0         | 14.5<br>14.5        | .015 | .38 | .243 | 6.17  |
| 5547UE                       | 9 | 7 | 1000                    | 305                   | 70.0                 | 31.8                | .020 | .51 | .334 | 8.48  |
| 18 AWG                       |   |   |                         |                       |                      |                     |      |     |      |       |
| 5341UE                       | 2 | 7 | U-1000<br>1000          | U-305<br>305          | 35.0<br>36.0         | 15.9<br>16.4        | .015 | .38 | .266 | 6.76  |
| 5342UE                       | 3 | 7 | U-1000<br>1000          | U-305<br>305          | 49.0<br>50.0         | 22.3<br>22.7        | .015 | .38 | .283 | 7.19  |
| 5343UE                       | 4 | 7 | 1000                    | 305                   | 67.0                 | 30.5                | .018 | .46 | .320 | 8.13  |
| 5345UE                       | 6 | 7 | 1000                    | 305                   | 96.0                 | 43.6                | .018 | .46 | .362 | 9.19  |
| 5347UE                       | 9 | 7 | 1000                    | 305                   | 140.0                | 63.6                | .020 | .51 | .434 | 11.02 |

#### Color Code Chart

| Pair No. | Color Combination |
|----------|-------------------|
| 1        | Black & Red       |
| 2        | Black & White     |
| 3        | Black & Green     |
| 4        | Black & Blue      |
| 5        | Black & Yellow    |
| 6        | Black & Brown     |
| 7        | Black & Orange    |
| 8        | Red & White       |
| 9        | Red & Green       |



By:



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1-800-527-0010

# Security and Alarm Cable

Commercial Applications  
Shielded



## Overall Shielded Twisted Pairs CMR/CMG FT4 Rated

### Product Description

Bare copper conductors, PVC insulation. Conductors twisted into pairs, multiple pairs cabled together, overall Beldfoil® shield (foil side out) and drain wire, overall Gray PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

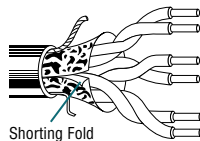
### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> | .010" (.254mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CMR            |
| CEC                         | CMG FT4        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

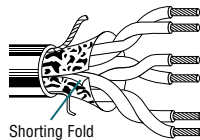
### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

### Solid Conductor



### Stranded Conductor



### Color Code Chart

| Pair No. | Color Combination | Pair No. | Color Combination |
|----------|-------------------|----------|-------------------|
| 1        | Black & Red       | 4        | Black & Blue      |
| 2        | Black & White     | 5        | Black & Yellow    |
| 3        | Black & Green     | 6        | Black & Brown     |

| Part No. | No. of Pairs | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Overall Shielded Twisted Pairs (NEC CMR and CEC CMG FT4)

| 22 AWG                              |   |       |                         |                       |                      |                     |      |     |      |      |
|-------------------------------------|---|-------|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|------|
| <b>5561FE</b><br><small>new</small> | 2 | solid | U-1000<br>1000          | U-305<br>305          | 22.0<br>22.0         | 10.0<br>10.0        | .015 | .38 | .200 | 5.08 |
| <b>5541FE</b>                       | 2 | 7     | U-500<br>U-1000<br>1000 | U-152<br>U-305<br>305 | 11.0<br>22.0<br>22.0 | 5.0<br>10.0<br>10.0 | .015 | .38 | .209 | 5.31 |
| <b>5562FE</b><br><small>new</small> | 3 | solid | U-1000<br>1000          | U-305<br>305          | 27.0<br>28.0         | 12.3<br>12.7        | .015 | .38 | .212 | 5.38 |
| <b>5542FE</b>                       | 3 | 7     | U-1000<br>1000          | U-305<br>305          | 28.0<br>28.0         | 12.7<br>12.7        | .015 | .38 | .223 | 5.66 |
| <b>5563FE</b><br><small>new</small> | 4 | solid | U-1000<br>1000          | U-305<br>305          | 33.0<br>38.0         | 15.0<br>17.3        | .015 | .38 | .246 | 6.25 |
| <b>5543FE</b><br><small>new</small> | 4 | 7     | 1000                    | 305                   | 39.0                 | 17.7                | .015 | .38 | .252 | 6.40 |
| <b>5545FE</b>                       | 6 | 7     | U-1000<br>1000          | U-305<br>305          | 47.0<br>48.0         | 21.4<br>21.8        | .015 | .38 | .278 | 7.06 |
| 20 AWG                              |   |       |                         |                       |                      |                     |      |     |      |      |
| <b>5441FE</b><br><small>new</small> | 2 | 7     | 500<br>U-1000<br>1000   | 152<br>U-305<br>305   | 15.0<br>29.0<br>29.0 | 6.8<br>13.2<br>13.2 | .015 | .38 | .235 | 5.97 |
| <b>5442FE</b><br><small>new</small> | 3 | 7     | U-1000<br>1000          | U-305<br>305          | 38.0<br>43.0         | 17.3<br>19.5        | .015 | .38 | .252 | 6.40 |
| <b>5445FE</b><br><small>new</small> | 6 | 7     | 1000                    | 305                   | 72.0                 | 32.7                | .020 | .51 | .323 | 8.20 |
| 18 AWG                              |   |       |                         |                       |                      |                     |      |     |      |      |
| <b>5341FE</b>                       | 2 | 7     | 500<br>U-1000<br>1000   | 152<br>U-305<br>305   | 21.0<br>41.0<br>42.0 | 9.5<br>18.6<br>19.1 | .015 | .38 | .270 | 6.86 |
| <b>5342FE</b>                       | 3 | 7     | 1000                    | 305                   | 52.0                 | 23.6                | .015 | .38 | .275 | 6.99 |
| <b>5343FE</b>                       | 4 | 7     | 1000                    | 305                   | 70.0                 | 31.8                | .015 | .38 | .318 | 8.08 |
| <b>5345FE</b>                       | 6 | 7     | 500<br>1000             | 152<br>305            | 52.5<br>103.0        | 23.9<br>46.8        | .020 | .51 | .373 | 9.47 |



## Security and Alarm Cable

Commercial Applications

Shielded



### Individually Shielded Twisted Pairs

CMR/CMG FT4 Rated

#### Product Description

Bare copper conductors, PVC insulation. Conductors twisted into pairs and individually shielded with Beldfoil® tape (aluminum side facing in) and a drain wire, multiple pairs cabled together, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

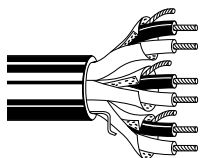
**Color Code:** See chart below.

#### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> | .010" (.254mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CMR            |
| CEC                         | CMG FT4        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

#### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



| Part No. | No. of Pairs | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Individually Shielded Twisted Pairs (NEC CMR and CEC CMG FT4)

##### 22 AWG

|                                     |   |   |      |     |      |      |      |     |      |      |
|-------------------------------------|---|---|------|-----|------|------|------|-----|------|------|
| <b>5543PE</b><br><small>new</small> | 4 | 7 | 1000 | 305 | 54.0 | 24.5 | .033 | .84 | .303 | 7.70 |
|-------------------------------------|---|---|------|-----|------|------|------|-----|------|------|

#### Color Code Chart

| Pair No. | Color Combination   |
|----------|---------------------|
| 1        | Black/Red & Red     |
| 2        | Black/White & White |
| 3        | Black/Green & Green |
| 4        | Black/Blue & Blue   |



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1-800-527-0010

# Security and Alarm Cable

Commercial Applications  
Shielded



## Shielded

### Twisted Pair plus Conductor(s)

CMR/CMG FT4 Rated

## Product Description

Bare copper conductors, PVC insulation, Black/Red pair shielded with Beldfoil® tape (aluminum side facing in) and tinned copper drain wire, cabled with additional insulated conductor(s) as indicated, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

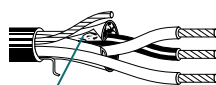
**Color Code:** Black & Red (shielded pair), White, Green. (5542GE Black & Red, Black & White, Black & Green pairs).

## Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> | .010" (.254mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC                         | CMR            |
| CEC                         | CMG FT4        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

## Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



Shorting Fold

| Part No. | No. of Pairs + No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|-----------------------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |                             |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### STP plus Conductor(s) (NEC CMR and CEC CMG FT4)

| 22 AWG                              |            |   |                         |                       |                      |                   |      |     |      |      |
|-------------------------------------|------------|---|-------------------------|-----------------------|----------------------|-------------------|------|-----|------|------|
| <b>5501GE</b>                       | 1 STP +1/C | 7 | U-1000                  | U-305                 | 17.0                 | 7.7               | .015 | .38 | .171 | 4.34 |
| <b>5502GE</b>                       | 1 STP +2/C | 7 | U-500<br>U-1000<br>1000 | U-152<br>U-305<br>305 | 10.0<br>19.0<br>19.0 | 4.5<br>8.6<br>8.6 | .015 | .38 | .186 | 4.72 |
| <b>5542GE</b>                       | 1 STP +2TP | 7 | U-1000                  | U-305                 | 26.0                 | 11.8              | .015 | .38 | .220 | 5.59 |
| 20 AWG                              |            |   |                         |                       |                      |                   |      |     |      |      |
| <b>5401GE</b>                       | 1 STP +1/C | 7 | U-1000<br>1000          | U-305<br>305          | 23.0<br>24.0         | 10.5<br>10.9      | .015 | .38 | .196 | 4.98 |
| <b>5402GE</b><br><small>NEW</small> | 1 STP +2/C | 7 | U-1000                  | U-305                 | 27.0                 | 12.3              | .015 | .38 | .200 | 5.08 |
| 18 AWG                              |            |   |                         |                       |                      |                   |      |     |      |      |
| <b>5302GE</b><br><small>NEW</small> | 1 STP +2/C | 7 | 1000                    | 305                   | 31.5                 | 14.3              | .015 | .38 | .225 | 5.72 |

STP = Shielded Twisted Pair(s) • /C = Conductor(s)

# Security and Alarm Cable

Water-Blocked for Use in Underground Ducts



## Water-blocked, Shielded Twisted Pair plus Conductor(s)

CM FT1 Rated

### Product Description

Tinned copper conductors, PVC insulation, Black/Red conductors twisted into a pair and shielded with Beldfoil® tape (aluminum side facing in) and drain wire, cabled with additional insulated conductor(s) as indicated, water-blocking tape overall, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** Black & Red (shielded pair);  
White, Green, Brown, Blue.

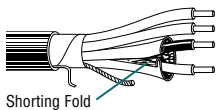
### Specifications

|                             |                     |
|-----------------------------|---------------------|
| <b>Conductor</b>            | Tinned Copper       |
| <b>Insulation</b>           | PVC                 |
| <b>Insulation Thickness</b> | .010" (.254mm)      |
| <b>Shield</b>               |                     |
| Twisted Pair                | Beldfoil            |
| Overall                     | Water-blocking Tape |
| <b>Jacket</b>               | PVC                 |
| <b>Approvals</b>            |                     |
| NEC                         | CM                  |
| CEC                         | CM FT1              |
| <b>NEC Articles</b>         | 800                 |
| <b>Voltage Rating</b>       | 300V                |
| <b>Temperature Rating</b>   | 105°C               |

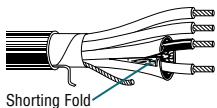
### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Indoor or Outdoor Use

### Solid Conductor



### Stranded Conductor



| Part No. | No. of Pairs + No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|-----------------------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |                             |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Water-blocked, STP plus Conductor(s) (NEC CM and CEC CM FT1)

| 22 AWG                              |            |       |                                |                              |                              |                            |      |     |      |      |
|-------------------------------------|------------|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| <b>5521G1</b><br><small>new</small> | 1 STP +1/C | solid | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 11.5<br>13.0<br>23.0<br>22.0 | 5.2<br>5.9<br>10.5<br>10.0 | .025 | .64 | .212 | 5.38 |
| <b>5501G1</b><br><small>new</small> | 1 STP +1/C | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 12.0<br>12.5<br>24.0<br>25.0 | 5.5<br>5.7<br>10.9<br>11.4 | .025 | .64 | .222 | 5.64 |
| <b>5522G1</b><br><small>new</small> | 1 STP +2/C | solid | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 13.5<br>15.0<br>26.0<br>27.0 | 6.1<br>6.8<br>11.8<br>12.3 | .025 | .64 | .224 | 5.69 |
| <b>5502G1</b><br><small>new</small> | 1 STP +2/C | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 14.5<br>14.5<br>28.0<br>29.0 | 6.6<br>6.6<br>12.7<br>13.2 | .025 | .64 | .240 | 6.10 |
| <b>5504G1</b><br><small>new</small> | 1 STP +4/C | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 18.0<br>18.0<br>35.0<br>36.0 | 8.2<br>8.2<br>15.9<br>16.4 | .025 | .64 | .268 | 6.81 |

STP = Shielded Twisted Pair(s) • /C = Conductor(s)



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**1-800-527-0010**

# Security and Alarm Cable

Commercial Applications  
Plenum-Rated



## Unshielded Multi-conductor CMP FT6 Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket, rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> | .009" (.229mm) |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC                         | CMP            |
| CEC                         | CMP FT6        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

#### Solid Conductor



#### Stranded Conductor



### Color Code Chart

| Cond. No. | Color | Cond. No. | Color  |
|-----------|-------|-----------|--------|
| 1         | Black | 7         | Orange |
| 2         | Red   | 8         | Yellow |
| 3         | White | 9         | Purple |
| 4         | Green | 10        | Gray   |
| 5         | Brown | 11        | Pink   |
| 6         | Blue  | 12        | Tan    |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Unshielded Multi-conductor (NEC CMP and CEC CMP FT6)

| 22 AWG                       |    |       |                                |                              |                            |                          |      |     |      |      |
|------------------------------|----|-------|--------------------------------|------------------------------|----------------------------|--------------------------|------|-----|------|------|
| 6520UE                       | 2  | solid | U-1000<br>1000                 | U-305<br>305                 | 10.0<br>9.0                | 4.5<br>4.1               | .015 | .38 | .118 | 3.00 |
| 6500UE                       | 2  | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 5.5<br>10.0<br>10.0        | 2.5<br>4.5<br>4.5        | .015 | .38 | .124 | 3.15 |
| 6521UE                       | 3  | solid | 1000                           | 305                          | 13.0                       | 5.9                      | .015 | .38 | .125 | 3.18 |
| 6501UE                       | 3  | 7     | U-1000<br>1000                 | U-305<br>305                 | 14.0<br>13.0               | 6.4<br>5.9               | .015 | .38 | .131 | 3.33 |
| 6522UE<br><small>new</small> | 4  | solid | U-1000<br>1000                 | U-305<br>305                 | 16.0<br>16.0               | 7.3<br>7.3               | .015 | .38 | .136 | 3.45 |
| 6502UE                       | 4  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 9.0<br>8.5<br>17.0<br>17.0 | 4.1<br>3.9<br>7.7<br>7.7 | .015 | .38 | .143 | 3.63 |
| 6524UE<br><small>new</small> | 6  | solid | U-1000                         | U-305                        | 23.0                       | 10.5                     | .015 | .38 | .162 | 4.11 |
| 6504UE                       | 6  | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 12.0<br>24.0<br>24.0       | 5.5<br>10.9<br>10.9      | .015 | .38 | .171 | 4.34 |
| 6506UE                       | 8  | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 15.5<br>31.0<br>31.0       | 7.0<br>14.1<br>14.1      | .015 | .38 | .186 | 4.72 |
| 6508UE                       | 10 | 7     | U-1000<br>1000                 | U-305<br>305                 | 38.0<br>43.0               | 17.3<br>19.5             | .015 | .38 | .218 | 5.54 |
| 6509UE                       | 12 | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 22.0<br>44.0<br>49.0       | 10.0<br>20.0<br>22.3     | .015 | .38 | .225 | 5.72 |
| 20 AWG                       |    |       |                                |                              |                            |                          |      |     |      |      |
| 6400UE                       | 2  | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 7.0<br>13.0<br>14.0        | 3.2<br>5.9<br>6.4        | .015 | .38 | .138 | 3.51 |
| 6401UE                       | 3  | 7     | U-1000<br>1000                 | U-305<br>305                 | 18.0<br>18.0               | 8.2<br>8.2               | .015 | .38 | .146 | 3.71 |
| 6402UE                       | 4  | 7     | U-1000<br>1000                 | U-305<br>305                 | 24.0<br>24.0               | 10.9<br>10.9             | .015 | .38 | .160 | 4.06 |
| 6403UE                       | 5  | 7     | U-1000<br>1000                 | U-305<br>305                 | 28.0<br>28.0               | 12.7<br>12.7             | .015 | .38 | .176 | 4.47 |
| 6406UE<br><small>new</small> | 8  | 7     | 1000                           | 305                          | 44.0                       | 20.0                     | .015 | .38 | .209 | 5.21 |

# Security and Alarm Cable

Commercial Applications

Plenum-Rated



## Unshielded Multi-conductor (cont'd.)

CMP FT6 Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket, rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> | .009" (.229mm) |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC                         | CMP            |
| CEC                         | CMP FT6        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

#### Solid Conductor



#### Stranded Conductor



### Color Code Chart

| Cond. No. | Color | Cond. No. | Color  |
|-----------|-------|-----------|--------|
| 1         | Black | 7         | Orange |
| 2         | Red   | 8         | Yellow |
| 3         | White | 9         | Purple |
| 4         | Green | 10        | Gray   |
| 5         | Brown | 11        | Pink   |
| 6         | Blue  | 12        | Tan    |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Unshielded Multi-conductor (NEC CMP and CEC CMP FT6)

|               |    |       |                                |                              |                              |                            |      |     |      |      |
|---------------|----|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| <b>18 AWG</b> |    |       |                                |                              |                              |                            |      |     |      |      |
| <b>6320UE</b> | 2  | solid | U-1000                         | U-305                        | 17.0                         | 7.7                        | .015 | .38 | .147 | 3.73 |
| <b>6300UE</b> | 2  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 9.5<br>9.0<br>18.0<br>18.0   | 4.3<br>4.1<br>8.2<br>8.2   | .015 | .38 | .157 | 3.99 |
| <b>6321UE</b> | 3  | solid | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 12.0<br>24.0<br>24.0         | 5.5<br>10.9<br>10.9        | .015 | .38 | .156 | 3.96 |
| <b>6301UE</b> | 3  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 13.0<br>12.5<br>25.0<br>25.0 | 5.9<br>5.7<br>11.4<br>11.4 | .015 | .38 | .168 | 4.27 |
| <b>6322UE</b> | 4  | solid | U-1000                         | U-305                        | 30.0                         | 13.6                       | .015 | .38 | .171 | 4.34 |
| <b>6302UE</b> | 4  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 18.5<br>20.0<br>36.0<br>39.0 | 8.4<br>9.1<br>16.4<br>17.7 | .015 | .38 | .186 | 4.72 |
| <b>6303UE</b> | 5  | 7     | U-1000<br>1000                 | U-305<br>305                 | 39.0<br>41.0                 | 17.7<br>18.6               | .015 | .38 | .203 | 5.16 |
| <b>6304UE</b> | 6  | 7     | 500<br>1000                    | 152<br>305                   | 23.5<br>51.0                 | 10.7<br>23.2               | .015 | .38 | .222 | 5.64 |
| <b>6306UE</b> | 8  | 7     | 500<br>1000                    | 152<br>305                   | 30.5<br>65.0                 | 13.9<br>29.5               | .015 | .38 | .242 | 6.15 |
| <b>6307UE</b> | 9  | 7     | 1000                           | 305                          | 68.0                         | 30.9                       | .015 | .38 | .262 | 6.65 |
| <b>6308UE</b> | 10 | 7     | 500<br>1000                    | 152<br>305                   | 40.5<br>75.0                 | 18.4<br>34.1               | .015 | .38 | .286 | 7.26 |
| <b>6309UE</b> | 12 | 7     | 1000                           | 305                          | 84.0                         | 38.2                       | .015 | .38 | .296 | 7.52 |
| <b>16 AWG</b> |    |       |                                |                              |                              |                            |      |     |      |      |
| <b>6200UE</b> | 2  | 19    | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 13.0<br>26.0<br>26.0         | 5.9<br>11.8<br>11.8        | .015 | .38 | .180 | 4.57 |
| <b>6201UE</b> | 3  | 19    | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 18.0<br>36.0<br>38.0         | 8.2<br>16.4<br>17.3        | .015 | .38 | .191 | 4.85 |
| <b>6202UE</b> | 4  | 19    | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 25.5<br>47.0<br>52.0         | 11.6<br>21.4<br>23.6       | .015 | .38 | .211 | 5.36 |
| <b>6205UE</b> | 7  | 19    | 500                            | 152                          | 41.5                         | 18.9                       | .015 | .38 | .255 | 6.48 |



# Security and Alarm Cable

Commercial Applications

Plenum-Rated



## Unshielded Multi-conductor

CL2P Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket, rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> | .011" (.279mm) |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC                         | CL2P           |
| <b>NEC Articles</b>         | 725            |
| <b>Voltage Rating</b>       | 150V           |
| <b>Temperature Rating</b>   | 75°C           |

### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Unshielded Multi-conductor (NEC CL2P)

| 14 AWG |   |    |        |       |       |      |      |     |      |      |
|--------|---|----|--------|-------|-------|------|------|-----|------|------|
| 6100UE | 2 | 19 | 500    | 152   | 20.0  | 9.1  | .015 | .38 | .222 | 5.64 |
|        |   |    | U-1000 | U-305 | 39.0  | 17.7 |      |     |      |      |
|        |   |    | 1000   | 305   | 40.0  | 18.2 |      |     |      |      |
| 6101UE | 3 | 19 | 1000   | 305   | 60.0  | 27.3 | .015 | .38 | .236 | 5.99 |
| 6102UE | 4 | 19 | 1000   | 305   | 73.0  | 33.2 | .015 | .38 | .261 | 6.63 |
| 12 AWG |   |    |        |       |       |      |      |     |      |      |
| 6000UE | 2 | 19 | 500    | 152   | 32.0  | 14.5 | .015 | .38 | .256 | 6.50 |
|        |   |    | 1000   | 305   | 58.0  | 26.4 |      |     |      |      |
| 6001UE | 3 | 19 | 1000   | 305   | 83.0  | 37.7 | .015 | .38 | .273 | 6.93 |
| 6002UE | 4 | 19 | 1000   | 305   | 111.0 | 50.5 | .018 | .46 | .308 | 7.82 |

### Color Code Chart

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | White |
| 3         | Red   |
| 4         | Green |



# Security and Alarm Cable

Commercial Applications  
Shielded, Plenum-Rated



## Shielded Multi-conductor CMP FT6 Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, overall Beldfoil® tape shield (aluminum side out) and drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

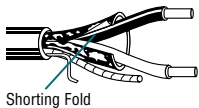
### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> | .009" (.229mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC                         | CMP            |
| CEC                         | CMP FT6        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

### Applications

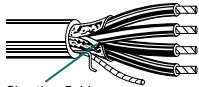
- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

### Solid Conductor



Shorting Fold

### Stranded Conductor



Shorting Fold

### Color Code Chart

| Cond. No. | Color | Cond. No. | Color  |
|-----------|-------|-----------|--------|
| 1         | Black | 7         | Orange |
| 2         | Red   | 8         | Yellow |
| 3         | White | 9         | Purple |
| 4         | Green | 10        | Gray   |
| 5         | Brown | 11        | Pink   |
| 6         | Blue  | 12        | Tan    |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Shielded Multi-conductor (NEC CMP and CEC CMP FT6)

| 22 AWG                       |    |       |                                |                              |                              |                            |      |     |      |      |
|------------------------------|----|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| 6520FE                       | 2  | solid | U-1000<br>1000                 | U-305<br>305                 | 13.0<br>13.0                 | 5.9<br>5.9                 | .015 | .38 | .125 | 3.18 |
| 6500FE                       | 2  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 7.0<br>7.0<br>13.0<br>13.0   | 3.2<br>3.2<br>5.9<br>5.9   | .015 | .38 | .132 | 3.35 |
| 6521FE                       | 3  | solid | 1000                           | 305                          | 17.0                         | 7.7                        | .015 | .38 | .132 | 3.35 |
| 6501FE                       | 3  | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 8.0<br>16.0<br>16.0          | 3.6<br>7.3<br>7.3          | .015 | .38 | .140 | 3.56 |
| 6502FE                       | 4  | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 10.0<br>20.0<br>20.0         | 4.5<br>9.1<br>9.1          | .015 | .38 | .150 | 3.81 |
| 6504FE                       | 6  | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 13.5<br>15.0<br>26.0<br>26.0 | 6.1<br>6.8<br>11.8<br>11.8 | .015 | .38 | .178 | 4.52 |
| 6506FE                       | 8  | 7     | U-1000<br>1000                 | U-305<br>305                 | 34.0<br>37.0                 | 15.5<br>16.8               | .015 | .38 | .193 | 4.90 |
| 6508FE                       | 10 | 7     | U-1000<br>1000                 | U-305<br>305                 | 41.0<br>46.0                 | 18.6<br>20.9               | .015 | .38 | .225 | 5.72 |
| 20 AWG                       |    |       |                                |                              |                              |                            |      |     |      |      |
| 6420FE                       | 2  | solid | U-1000<br>1000                 | U-305<br>305                 | 16.0<br>15.0                 | 7.3<br>6.8                 | .015 | .38 | .137 | 3.48 |
| 6400FE                       | 2  | 7     | U-1000<br>1000                 | U-305<br>305                 | 17.0<br>17.0                 | 7.7<br>7.7                 | .015 | .38 | .145 | 3.68 |
| 6401FE                       | 3  | 7     | U-1000<br>1000                 | U-305<br>305                 | 22.0<br>22.0                 | 10.0<br>10.0               | .015 | .38 | .153 | 3.89 |
| 6402FE                       | 4  | 7     | U-1000<br>1000                 | U-305<br>305                 | 27.0<br>27.0                 | 12.3<br>12.3               | .015 | .38 | .167 | 4.24 |
| 6405FE<br><small>new</small> | 7  | 7     | 1000                           | 305                          | 44.0                         | 20.0                       | .015 | .38 | .199 | 5.05 |
| 6407FE<br><small>new</small> | 9  | 7     | 1000                           | 305                          | 56.0                         | 25.5                       | .015 | .38 | .232 | 5.89 |



# Security and Alarm Cable

Commercial Applications  
Shielded, Plenum-Rated



**Shielded Multi-conductor** (cont'd.)  
CMP FT6 Rated or CL2P Rated

## Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, overall Beldfoil® tape shield (aluminum side out) and drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

## Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> |                |
| 18 and 16 AWG               | .009" (.229mm) |
| 14 and 12 AWG               | .011" (.279mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC (18 and 16 AWG)         | CMP            |
| CEC (18 and 16 AWG)         | CMP FT6        |
| NEC (14 and 12 AWG)         | CL2P           |
| <b>NEC Articles</b>         |                |
| 18 and 16 AWG               | 800            |
| 14 and 12 AWG               | 725            |
| <b>Voltage Rating</b>       |                |
| 18 and 16 AWG               | 300V           |
| 14 and 12 AWG               | 150V           |
| <b>Temperature Rating</b>   | 75°C           |

## Applications

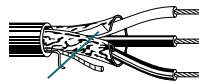
- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

### Solid Conductor



Shorting Fold

### Stranded Conductor



Shorting Fold

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Shielded Multi-conductor (NEC CMP and CEC CMP FT6)

| 18 AWG                                                                            |    |       |        |       |      |      |      |     |      |      |
|-----------------------------------------------------------------------------------|----|-------|--------|-------|------|------|------|-----|------|------|
| 6320FE                                                                            | 2  | solid | 1000   | 305   | 22.0 | 10.0 | .015 | .38 | .153 | 3.89 |
| 6300FE                                                                            | 2  | 7     | U-500  | U-152 | 12.0 | 5.5  | .015 | .38 | .162 | 4.11 |
|                                                                                   |    |       | 500    | 152   | 12.0 | 5.5  |      |     |      |      |
|                                                                                   |    |       | U-1000 | U-305 | 23.0 | 10.5 |      |     |      |      |
|                                                                                   |    |       | 1000   | 305   | 23.0 | 10.5 |      |     |      |      |
| 6301FE                                                                            | 3  | 7     | U-500  | U-152 | 15.5 | 7.0  | .015 | .38 | .175 | 4.45 |
|                                                                                   |    |       | U-1000 | U-305 | 30.0 | 13.6 |      |     |      |      |
|                                                                                   |    |       | 1000   | 305   | 30.0 | 13.6 |      |     |      |      |
| 6302FE                                                                            | 4  | 7     | U-500  | U-152 | 19.0 | 8.6  | .015 | .38 | .191 | 4.85 |
|                                                                                   |    |       | 500    | 152   | 19.0 | 8.6  |      |     |      |      |
|                                                                                   |    |       | U-1000 | U-305 | 38.0 | 17.3 |      |     |      |      |
|                                                                                   |    |       | 1000   | 305   | 37.0 | 16.8 |      |     |      |      |
| 6304FE                                                                            | 6  | 7     | 1000   | 305   | 56.0 | 25.5 | .015 | .38 | .229 | 5.82 |
| 6306FE                                                                            | 8  | 7     | 1000   | 305   | 66.0 | 30.0 | .015 | .38 | .259 | 6.58 |
|  |    |       |        |       |      |      |      |     |      |      |
| 6307FE                                                                            | 9  | 7     | 500    | 152   | 39.5 | 18.0 | .015 | .38 | .269 | 6.83 |
|                                                                                   |    |       | 1000   | 305   | 73.0 | 33.2 |      |     |      |      |
| 6309FE                                                                            | 12 | 7     | 500    | 152   | 54.5 | 24.8 | .018 | .46 | .309 | 7.85 |
|                                                                                   |    |       | 1000   | 305   | 99.0 | 45.0 |      |     |      |      |
| 16 AWG                                                                            |    |       |        |       |      |      |      |     |      |      |
| 6200FE                                                                            | 2  | 19    | 500    | 152   | 16.5 | 7.5  | .015 | .38 | .187 | 4.75 |
|                                                                                   |    |       | 1000   | 305   | 33.0 | 15.0 |      |     |      |      |
| 6201FE                                                                            | 3  | 19    | 500    | 152   | 22.5 | 10.2 | .015 | .38 | .198 | 5.03 |
|                                                                                   |    |       | U-1000 | U-305 | 44.0 | 20.0 |      |     |      |      |
|                                                                                   |    |       | 1000   | 305   | 45.0 | 20.5 |      |     |      |      |
| 6202FE                                                                            | 4  | 19    | 500    | 152   | 29.0 | 13.2 | .015 | .38 | .218 | 5.54 |
|                                                                                   |    |       | 1000   | 305   | 59.0 | 26.8 |      |     |      |      |

### Shielded Multi-conductor (NEC CL2P)

| 14 AWG |   |    |        |       |      |      |      |     |      |      |
|--------|---|----|--------|-------|------|------|------|-----|------|------|
| 6100FE | 2 | 19 | 500    | 152   | 26.0 | 11.8 | .015 | .38 | .229 | 5.82 |
|        |   |    | U-1000 | U-305 | 49.0 | 22.3 |      |     |      |      |
|        |   |    | 1000   | 305   | 54.0 | 24.5 |      |     |      |      |
| 6101FE | 3 | 19 | 1000   | 305   | 70.0 | 31.8 | .015 | .38 | .243 | 6.17 |
| 12 AWG |   |    |        |       |      |      |      |     |      |      |
| 6000FE | 2 | 19 | 500    | 152   | 36.0 | 16.4 | .015 | .38 | .263 | 6.68 |
|        |   |    | 1000   | 305   | 68.0 | 30.9 |      |     |      |      |

### Color Code Chart (18 to 16 AWG)

| Cond. No. | Color | Cond. No. | Color  |
|-----------|-------|-----------|--------|
| 1         | Black | 7         | Orange |
| 2         | Red   | 8         | Yellow |
| 3         | White | 9         | Purple |
| 4         | Green | 10        | Gray   |
| 5         | Brown | 11        | Pink   |
| 6         | Blue  | 12        | Tan    |

### (14 to 12 AWG)

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | White |
| 3         | Red   |



# Security and Alarm Cable

Commercial Applications

Plenum-Rated



## Unshielded Twisted Pairs

CMP FT6 Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, twisted into pairs, multiple pairs cabled together, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

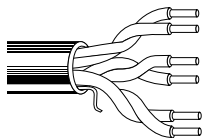
### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> | .009" (.229mm) |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC                         | CMP            |
| CEC                         | CMP FT6        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

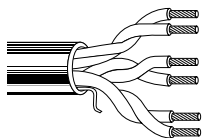
### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

### Solid Conductor



### Stranded Conductor



### Color Code Chart

| Pair No. | Color Combination | Pair No. | Color Combination |
|----------|-------------------|----------|-------------------|
| 1        | Black & Red       | 6        | Black & Brown     |
| 2        | Black & White     | 7        | Black & Orange    |
| 3        | Black & Green     | 8        | Red & White       |
| 4        | Black & Blue      | 9        | Red & Green       |
| 5        | Black & Yellow    |          |                   |

| Part No. | No. of Pairs | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Unshielded Twisted Pairs (NEC CMP and CEC CMP FT6)

|                                     |   |       |                       |                     |                      |                     |      |     |      |       |
|-------------------------------------|---|-------|-----------------------|---------------------|----------------------|---------------------|------|-----|------|-------|
| <b>22 AWG</b>                       |   |       |                       |                     |                      |                     |      |     |      |       |
| <b>6561UE</b><br><small>new</small> | 2 | solid | 1000                  | 305                 | 19.0                 | 8.6                 | .015 | .38 | .188 | 4.78  |
| <b>6541UE</b>                       | 2 | 7     | U-1000<br>1000        | U-305<br>305        | 20.0<br>20.0         | 9.1<br>9.1          | .015 | .38 | .199 | 5.05  |
| <b>6562UE</b><br><small>new</small> | 3 | solid | 1000                  | 305                 | 25.0                 | 11.4                | .015 | .38 | .200 | 5.08  |
| <b>6542UE</b>                       | 3 | 7     | 1000                  | 305                 | 26.0                 | 11.8                | .015 | .38 | .212 | 5.38  |
| <b>6563UE</b><br><small>new</small> | 4 | solid | 1000                  | 305                 | 30.0                 | 13.6                | .015 | .38 | .221 | 5.61  |
| <b>6543UE</b><br><small>new</small> | 4 | 7     | 1000                  | 305                 | 38.0                 | 17.3                | .015 | .38 | .234 | 5.94  |
| <b>6545UE</b>                       | 6 | 7     | 1000                  | 305                 | 47.0                 | 21.4                | .015 | .38 | .264 | 6.71  |
| <b>6547UE</b>                       | 9 | 7     | 1000                  | 305                 | 69.0                 | 31.4                | .018 | .46 | .318 | 8.08  |
| <b>18 AWG</b>                       |   |       |                       |                     |                      |                     |      |     |      |       |
| <b>6341UE</b>                       | 2 | 7     | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 21.0<br>37.0<br>38.0 | 9.5<br>16.8<br>17.3 | .015 | .38 | .260 | 6.60  |
| <b>6342UE</b>                       | 3 | 7     | U-1000<br>1000        | U-305<br>305        | 49.0<br>50.0         | 22.3<br>22.7        | .015 | .38 | .278 | 7.06  |
| <b>6343UE</b>                       | 4 | 7     | 500<br>1000           | 152<br>305          | 37.5<br>66.0         | 17.0<br>30.0        | .015 | .38 | .314 | 7.98  |
| <b>6345UE</b>                       | 6 | 7     | 1000                  | 305                 | 95.0                 | 43.2                | .018 | .46 | .355 | 9.02  |
| <b>6347UE</b>                       | 9 | 7     | 1000                  | 305                 | 138.0                | 62.7                | .019 | .48 | .423 | 10.74 |



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# Security and Alarm Cable

Commercial Applications  
Shielded, Plenum-Rated



## Overall Shielded Twisted Pairs CMP FT6 Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, twisted into pairs, multiple pairs cabled together, overall Beldfoil® shield tape (aluminum side out) with drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

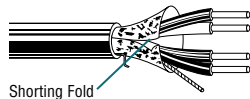
### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> | .009" (.229mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC                         | CMP            |
| CEC                         | CMP FT6        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

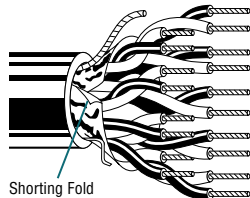
### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls

### Solid Conductor



### Stranded Conductor



### Color Code Chart

| Pair No. | Color Combination | Pair No. | Color Combination |
|----------|-------------------|----------|-------------------|
| 1        | Black & Red       | 6        | Black & Brown     |
| 2        | Black & White     | 7        | Black & Orange    |
| 3        | Black & Green     | 8        | Red & White       |
| 4        | Black & Blue      | 9        | Red & Green       |
| 5        | Black & Yellow    |          |                   |

| Part No. | No. of Pairs | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Overall Shielded Twisted Pairs (NEC CMP and CEC CMP FT6)

| 22 AWG                              |   |       |                         |                       |                      |                     |      |     |      |       |
|-------------------------------------|---|-------|-------------------------|-----------------------|----------------------|---------------------|------|-----|------|-------|
| <b>6561FE</b><br><small>new</small> | 2 | solid | 1000                    | 305                   | 21.0                 | 9.5                 | .015 | .38 | .196 | 4.98  |
| <b>6541FE</b>                       | 2 | 7     | U-500<br>U-1000<br>1000 | U-152<br>U-305<br>305 | 11.5<br>22.0<br>23.0 | 5.2<br>10.0<br>10.5 | .015 | .38 | .206 | 5.23  |
| <b>6542FE</b>                       | 3 | 7     | U-1000<br>1000          | U-305<br>305          | 29.0<br>28.0         | 13.2<br>12.7        | .015 | .38 | .224 | 5.69  |
| <b>6563FE</b><br><small>new</small> | 4 | solid | 1000                    | 305                   | 39.0                 | 17.7                | .015 | .38 | .229 | 5.82  |
| <b>6543FE</b><br><small>new</small> | 4 | 7     | U-1000<br>1000          | U-305<br>305          | 36.0<br>41.0         | 16.4<br>18.6        | .015 | .38 | .241 | 6.12  |
| <b>6545FE</b>                       | 6 | 7     | U-1000<br>1000          | U-305<br>305          | 49.0<br>50.0         | 22.3<br>22.7        | .015 | .38 | .271 | 6.88  |
| <b>6547FE</b>                       | 9 | 7     | 1000                    | 305                   | 72.0                 | 32.7                | .018 | .46 | .329 | 8.36  |
| 20 AWG                              |   |       |                         |                       |                      |                     |      |     |      |       |
| <b>6441FE</b><br><small>new</small> | 2 | 7     | U-500<br>1000           | U-152<br>305          | 15.5<br>30.0         | 7.0<br>13.6         | .015 | .38 | .231 | 5.87  |
| <b>6443FE</b><br><small>new</small> | 4 | 7     | U-1000<br>1000          | U-305<br>305          | 50.0<br>51.0         | 22.7<br>23.2        | .015 | .38 | .271 | 6.88  |
| 18 AWG                              |   |       |                         |                       |                      |                     |      |     |      |       |
| <b>6342FE</b>                       | 3 | 7     | 500<br>1000             | 152<br>305            | 28.0<br>56.0         | 12.7<br>25.5        | .015 | .38 | .285 | 7.24  |
| <b>6343FE</b>                       | 4 | 7     | 500<br>1000             | 152<br>305            | 39.5<br>74.0         | 18.0<br>33.6        | .015 | .38 | .319 | 8.10  |
| <b>6345FE</b>                       | 6 | 7     | 500<br>1000             | 152<br>305            | 50.0<br>101.0        | 22.7<br>45.9        | .018 | .46 | .355 | 9.02  |
| <b>6347FE</b>                       | 9 | 7     | 1000                    | 305                   | 144.0                | 65.5                | .019 | .48 | .430 | 10.92 |



# Security and Alarm Cable

Commercial Applications

Plenum-Rated



## Shielded

### Twisted Pair plus Conductor(s)

CMP FT6 Rated

## Product Description

Bare copper conductors, Flamarrest® insulation, Black/Red twisted pair shielded with Beldfoil® tape (aluminum side facing in), drain wire, cabled with additional insulated conductor(s) as indicated, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

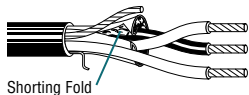
**Color Code:** Black & Red pair, White, Green.

## Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> | .009" (.229mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC                         | CMP            |
| CEC                         | CMP FT6        |
| <b>NEC Articles</b>         | 800            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

## Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



Shorting Fold

| Part No. | No. of Pairs + No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|-----------------------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |                             |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Shielded Twisted Pair plus Conductor(s) (NEC CMP and CEC CMP FT6)

| 22 AWG        |            |   |                |              |              |              |      |     |      |      |
|---------------|------------|---|----------------|--------------|--------------|--------------|------|-----|------|------|
| <b>6501GE</b> | 1 STP +1/C | 7 | 1000           | 305          | 18.0         | 8.2          | .015 | .38 | .174 | 4.42 |
| <b>6502GE</b> | 1 STP +2/C | 7 | U-1000<br>1000 | U-305<br>305 | 21.0<br>21.0 | 9.5<br>9.5   | .015 | .38 | .180 | 4.57 |
| 20 AWG        |            |   |                |              |              |              |      |     |      |      |
| <b>6401GE</b> | 1 STP +1/C | 7 | U-1000<br>1000 | U-305<br>305 | 24.0<br>24.0 | 10.9<br>10.9 | .015 | .38 | .195 | 4.95 |

STP = Shielded Twisted Pair(s) • /C = Conductor(s)



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**1-800-527-0010**

## Communication and Control Cable

Pro Audio and Intercom Systems  
Shielded, Plenum-Rated



### Shielded Multi-conductor

CMP FT6 Rated

#### Product Description

Bare copper conductors, Halar® insulation, conductors cabled with a Beldfoil® shield tape (aluminum side out) and drain wire. Natural Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

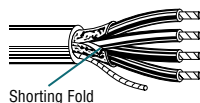
**Color Code:** See chart below.

#### Specifications

|                             |                 |
|-----------------------------|-----------------|
| <b>Conductor</b>            | Bare Copper     |
| <b>Insulation</b>           | Halar           |
| <b>Insulation Thickness</b> |                 |
| 22 AWG                      | .0055" (.140mm) |
| 20 AWG                      | .0060" (.152mm) |
| 18 AWG                      | .0065" (.165mm) |
| <b>Shield</b>               | Beldfoil        |
| <b>Jacket</b>               | Flamarrest      |
| <b>Approvals</b>            |                 |
| NEC                         | CMP             |
| CEC                         | CMP FT6         |
| <b>NEC Articles</b>         | 800             |
| <b>Voltage Rating</b>       | 300V            |
| <b>Temperature Rating</b>   | 75°C            |

#### Applications

- Pro Audio Systems
- Intercom/PA Systems
- Security Systems



Shorting Fold

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Shielded Multi-conductor (NEC CMP and CEC CMP FT6)

|                                     |   |   |                |              |              |              |      |     |      |      |
|-------------------------------------|---|---|----------------|--------------|--------------|--------------|------|-----|------|------|
| <b>22 AWG</b>                       |   |   |                |              |              |              |      |     |      |      |
| <b>6500FC</b>                       | 2 | 7 | U-1000<br>1000 | U-305<br>305 | 11.0<br>5.0  | 5.0<br>11.0  | .015 | .38 | .116 | 2.95 |
| <b>6502FC</b><br><small>new</small> | 4 | 7 | 1000           | 305          | 17.0         | 7.7          | .015 | .38 | .133 | 3.38 |
| <b>20 AWG</b>                       |   |   |                |              |              |              |      |     |      |      |
| <b>6400FC</b><br><small>new</small> | 2 | 7 | U-1000         | U-305        | 15.0         | 6.8          | .015 | .38 | .130 | 3.30 |
| <b>18 AWG</b>                       |   |   |                |              |              |              |      |     |      |      |
| <b>6300FC</b>                       | 2 | 7 | U-1000<br>1000 | U-305<br>305 | 21.0<br>9.5  | 9.5<br>21.0  | .015 | .38 | .152 | 3.86 |
| <b>6302FC</b>                       | 4 | 7 | U-1000<br>1000 | U-305<br>305 | 34.0<br>15.5 | 15.5<br>35.0 | .015 | .38 | .176 | 4.47 |

#### Color Code Chart

| Cond No. | Color |
|----------|-------|
| 1        | Black |
| 2        | Red   |
| 3        | White |
| 4        | Green |

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## Communication and Control Cable

Pro Audio and Intercom Systems

Overall Shielded, Plenum-Rated



### Overall Shielded Pairs

CMP FT6 Rated

#### Product Description

Bare copper conductors, Halar® insulation, twisted pairs cabled with a Beldfoil® shield tape (aluminum side out) and drain wire. Natural Flamarrest® jacket.

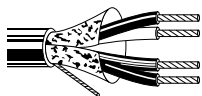
**Color Code:** Black & Red and Black & White pairs.

#### Specifications

|                             |                 |
|-----------------------------|-----------------|
| <b>Conductor</b>            | Bare Copper     |
| <b>Insulation</b>           | Halar           |
| <b>Insulation Thickness</b> | .0065" (.165mm) |
| <b>Shield</b>               | Beldfoil        |
| <b>Jacket</b>               | Flamarrest      |
| <b>Approvals</b>            |                 |
| NEC                         | CMP             |
| CEC                         | CMP FT6         |
| <b>NEC Articles</b>         | 800             |
| <b>Voltage Rating</b>       | 300V            |
| <b>Temperature Rating</b>   | 75°C            |

#### Applications

- Pro Audio Systems
- Intercom/PA Systems
- Security Systems



| Part No. | No. of Pairs | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Overall Shielded Pairs (NEC CMP and CEC CMP FT6)

##### 24 AWG

|                                     |   |   |       |       |     |     |      |     |      |      |
|-------------------------------------|---|---|-------|-------|-----|-----|------|-----|------|------|
| <b>6641FC</b><br><small>new</small> | 2 | 7 | U-500 | U-152 | 8.0 | 3.6 | .015 | .38 | .164 | 4.17 |
|-------------------------------------|---|---|-------|-------|-----|-----|------|-----|------|------|

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## Communication and Control Cable

Pro Audio and Intercom Systems  
Individually Shielded, Plenum-Rated



### Individually Shielded Twisted Pairs CMP FT6 Rated

#### Product Description

Bare copper conductors, FEP or Halar® insulation (per table). Conductors twisted into pairs and individually shielded with Beldfoil® tape (aluminum side facing in) and a drain wire, multiple pairs cabled together, Gray Fluorocopolymer (22 AWG) or Natural Flamarrest® (18 AWG) jacket, rip cord. Sequential footage marking every two feet.

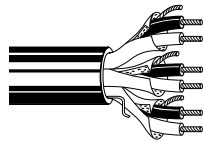
**Color Code:** See chart below.

#### Specifications

|                             |                      |
|-----------------------------|----------------------|
| <b>Conductor</b>            | Bare Copper          |
| <b>Insulation</b>           |                      |
| 22 AWG                      | FEP                  |
| 18 AWG                      | Halar                |
| <b>Insulation Thickness</b> | .010" (.254mm)       |
| <b>Shield</b>               | Beldfoil             |
| <b>Jacket</b>               |                      |
| 22 AWG                      | Gray Fluorocopolymer |
| 18 AWG                      | Natural Flamarrest   |
| <b>Nominal Capacitance</b>  |                      |
| 22 AWG                      | 27.5 pF/ft.          |
| 18 AWG                      | 44 pF/ft.            |
| <b>Approvals</b>            |                      |
| NEC                         | CMP                  |
| CEC                         | CMP FT6              |
| <b>NEC Articles</b>         | 800                  |
| <b>Voltage Rating</b>       | 300V                 |
| <b>Temperature Rating</b>   | 75°C                 |

#### Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls



#### Color Code Chart

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|----------|-------------------|----------|-------------------|----------|-------------------|
| 1        | Black & Red       | 6        | Black & Brown     | 11       | Red & Yellow      |
| 2        | Black & White     | 7        | Black & Orange    | 12       | Red & Brown       |
| 3        | Black & Green     | 8        | Red & White       | 13       | Red & Orange      |
| 4        | Black & Blue      | 9        | Red & Green       | 14       | Green & White     |
| 5        | Black & Yellow    | 10       | Red & Blue        | 15       | Green & Blue      |
|          |                   |          |                   | 16       | Green & Yellow    |

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| Part No. | No. of Pairs | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Individually Shielded Twisted Pairs (NEC CMP and CEC CMP FT6)

| 22 AWG        |    |   |        |       |       |      |      |     |      |       |
|---------------|----|---|--------|-------|-------|------|------|-----|------|-------|
| <b>6541PA</b> | 2  | 7 | 500    | 152   | 13.5  | 6.1  | .015 | .38 | .214 | 5.44  |
|               |    |   | U-1000 | U-305 | 26.0  | 11.8 |      |     |      |       |
|               |    |   | 1000   | 305   | 26.0  | 11.8 |      |     |      |       |
| <b>6542PA</b> | 3  | 7 | 1000   | 305   | 36.0  | 16.4 | .015 | .38 | .228 | 5.79  |
| <b>6543PA</b> | 4  | 7 | 1000   | 305   | 46.0  | 20.9 | .015 | .38 | .252 | 6.40  |
| <b>6545PA</b> | 6  | 7 | 1000   | 305   | 62.0  | 28.2 | .015 | .38 | .300 | 7.62  |
| <b>6546PA</b> | 8  | 7 | 1000   | 305   | 82.0  | 37.3 | .015 | .38 | .328 | 8.53  |
| <b>6548PA</b> | 12 | 7 | 1000   | 305   | 121.5 | 55.2 | .015 | .38 | .404 | 9.14  |
| <b>6549PA</b> | 16 | 7 | 1000   | 305   | 161.0 | 73.2 | .018 | .46 | .459 | 9.53  |
| 18 AWG        |    |   |        |       |       |      |      |     |      |       |
| <b>6341PC</b> | 2  | 7 | 500    | 152   | 25.5  | 11.6 | .015 | .38 | .278 | 7.06  |
| <b>new</b>    |    |   | U-1000 | U-305 | 46.0  | 20.9 |      |     |      |       |
|               |    |   | 1000   | 305   | 48.0  | 21.8 |      |     |      |       |
| <b>6342PC</b> | 3  | 7 | 500    | 152   | 33.0  | 15.0 | .015 | .38 | .297 | 7.54  |
| <b>new</b>    |    |   | 1000   | 305   | 67.0  | 30.5 |      |     |      |       |
| <b>6343PC</b> | 4  | 7 | 1000   | 305   | 85.0  | 38.6 | .015 | .38 | .329 | 8.36  |
| <b>new</b>    |    |   |        |       |       |      |      |     |      |       |
| <b>6345PC</b> | 6  | 7 | 500    | 152   | 65.0  | 29.5 | .019 | .48 | .402 | 10.21 |
| <b>new</b>    |    |   | 1000   | 305   | 128.0 | 58.2 |      |     |      |       |

## Security Coaxial Cable

Surveillance and CCTV Applications

Shielded or Flooded for Use in Underground Ducts



### Coax

CM FT1 Rated

#### Product Description

Bare copper conductor, foam polyolefin insulation, bare copper braid shield. Black PVC jacket. Sequential footage marking every two feet.

### Water-blocked Coax

CM FT1 Rated

#### Product Description

Bare copper conductor, foam polyolefin insulation, foil plus braid shield as shown per item, braid impregnated with CoreGuard® flame retardant flooding compound, Black UV resistant PVC jacket. Sequential footage marking every two feet.

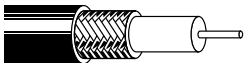
#### Specifications

|                           |                   |
|---------------------------|-------------------|
| <b>Conductor</b>          | Bare Copper       |
| <b>Insulation</b>         | FPO               |
| <b>Shield</b>             |                   |
| Coax                      | Bare Copper Braid |
| Water-blocked Coax        | Foil + Braid      |
| <b>Jacket</b>             | PVC               |
| <b>Approvals</b>          |                   |
| NEC                       | CM                |
| CEC                       | CM FT1            |
| <b>NEC Articles</b>       | 800               |
| <b>Nominal Impedance</b>  | 75Ω               |
| <b>Temperature Rating</b> | 75°C              |

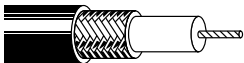
#### Applications

- CCTV

#### Solid Conductor



#### Stranded Conductor



#### Water-blocked



CoreGuard

| Part No. | AWG | Stranding and Conductor | Shield/Braid Coverage | Insulation Nominal OD |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    |
|----------|-----|-------------------------|-----------------------|-----------------------|----|------------|----|------------------|---|----------------------|----|
|          |     |                         |                       | Inch                  | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |

#### Coax (NEC CM and CEC CM FT1)

| Mini RG-59 Type |    |          |        |      |      |      |      |        |       |      |     |
|-----------------|----|----------|--------|------|------|------|------|--------|-------|------|-----|
| <b>573945*</b>  | 25 | solid BC | 94% BC | .085 | 2.16 | .146 | 3.71 | U-1000 | U-305 | 16.0 | 7.3 |
| <b>new</b>      |    |          |        |      |      |      |      | 1000   | 305   | 17.0 | 7.7 |

| RG-59 Type    |    |        |        |      |      |      |      |        |       |      |      |
|---------------|----|--------|--------|------|------|------|------|--------|-------|------|------|
| <b>551945</b> | 22 | 7/w BC | 95% BC | .140 | 3.56 | .232 | 5.89 | U-1000 | U-305 | 33.0 | 15.0 |
|               |    |        |        |      |      |      |      | 1000   | 305   | 32.0 | 14.5 |

|                |    |          |        |      |      |      |      |        |       |      |      |
|----------------|----|----------|--------|------|------|------|------|--------|-------|------|------|
| <b>543945*</b> | 20 | solid BC | 95% BC | .145 | 3.68 | .232 | 5.89 | U-500  | U-152 | 16.0 | 7.3  |
|                |    |          |        |      |      |      |      | 500    | 152   | 16.0 | 7.3  |
|                |    |          |        |      |      |      |      | U-1000 | U-305 | 32.0 | 14.5 |
|                |    |          |        |      |      |      |      | 1000   | 305   | 32.0 | 14.5 |

| RG-6 Type     |    |          |        |      |      |      |      |        |       |      |      |
|---------------|----|----------|--------|------|------|------|------|--------|-------|------|------|
| <b>533945</b> | 18 | solid BC | 95% BC | .180 | 4.57 | .266 | 6.76 | 500    | 152   | 22.5 | 10.2 |
|               |    |          |        |      |      |      |      | U-1000 | U-305 | 40.0 | 18.2 |
|               |    |          |        |      |      |      |      | 1000   | 305   | 41.0 | 18.6 |

| RG-11 Type    |    |          |        |      |      |      |       |      |     |      |      |
|---------------|----|----------|--------|------|------|------|-------|------|-----|------|------|
| <b>513945</b> | 14 | solid BC | 95% BC | .280 | 7.11 | .405 | 10.29 | 500  | 152 | 49.0 | 22.3 |
|               |    |          |        |      |      |      |       | 1000 | 305 | 97.0 | 44.1 |

#### Water-blocked Coax (NEC CM and CEC CM FT1)

| RG-59 Type    |    |          |                                       |      |      |      |      |        |       |      |      |
|---------------|----|----------|---------------------------------------|------|------|------|------|--------|-------|------|------|
| <b>5439W5</b> | 20 | solid BC | Duobond® II + 95% tinned copper braid | .145 | 3.68 | .236 | 5.99 | U-500  | U-152 | 13.0 | 5.9  |
| <b>new</b>    |    |          |                                       |      |      |      |      | 500    | 152   | 13.5 | 6.1  |
|               |    |          |                                       |      |      |      |      | U-1000 | U-305 | 26.0 | 11.8 |
|               |    |          |                                       |      |      |      |      | 1000   | 305   | 27.0 | 12.3 |

| RG-6 Type     |    |          |                               |      |      |      |      |        |       |      |      |
|---------------|----|----------|-------------------------------|------|------|------|------|--------|-------|------|------|
| <b>5339W5</b> | 18 | solid BC | Duofoil® + 60% aluminum braid | .180 | 4.57 | .270 | 6.86 | U-500  | U-152 | 16.0 | 7.3  |
| <b>new</b>    |    |          |                               |      |      |      |      | 500    | 152   | 16.0 | 7.3  |
|               |    |          |                               |      |      |      |      | U-1000 | U-305 | 32.0 | 14.5 |
|               |    |          |                               |      |      |      |      | 1000   | 305   | 32.0 | 14.5 |

BC = Bare Copper

\*Other jacket colors available. Consult [www.belden.com](http://www.belden.com).



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**1-800-527-0010**

# Security Coaxial Cable

CATV and MATV Applications  
Commercial or Schlage Systems



## Commercial and Schlage Coax

CM FT1 Rated

### Product Description

Bare copper conductor, foam polyolefin insulation, foil plus braid shield(s) as indicated, Black PVC jacket. Sequential footage marking every two feet.

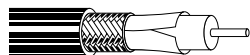
### Specifications

|                           |                              |
|---------------------------|------------------------------|
| <b>Conductor</b>          | Bare Copper                  |
| <b>Insulation</b>         | FPO                          |
| <b>Shield</b>             |                              |
| Coax                      | Duofoil® + Aluminum Braid(s) |
| Schlage                   | Duobond® + Aluminum Braid(s) |
| <b>Jacket</b>             | PVC                          |
| <b>Approvals</b>          |                              |
| NEC                       | CM                           |
| CEC                       | CM FT1                       |
| <b>NEC Articles</b>       | 820                          |
| <b>Nominal Impedance</b>  | 75Ω                          |
| <b>Temperature Rating</b> | 75°C                         |

### Applications

- CATV
- MATV

#### Duofoil Shield



#### Duobond Shield (Schlage Systems)



#### Quad Shield



| Part No. | AWG | Stranding and Conductor | Shield/Braid Coverage | Insulation Nominal OD |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    |
|----------|-----|-------------------------|-----------------------|-----------------------|----|------------|----|------------------|---|----------------------|----|
|          |     |                         |                       | Inch                  | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |

#### Coax (NEC CM and CEC CM FT1)

| Series 6 • RG-6 Type |    |          |                        |      |      |      |      |        |       |      |      |
|----------------------|----|----------|------------------------|------|------|------|------|--------|-------|------|------|
| 5339B5*              | 18 | solid BC | Duofoil + 60% AL braid | .180 | 4.57 | .266 | 6.76 | U-500  | U-152 | 18.0 | 8.2  |
|                      |    |          |                        |      |      |      |      | U-1000 | U-305 | 36.0 | 16.4 |
|                      |    |          |                        |      |      |      |      | 1000   | 305   | 36.0 | 16.4 |
| 5339Q5               | 18 | solid BC | Quad**                 | .180 | 4.57 | .298 | 7.57 | U-1000 | U-305 | 38.0 | 17.3 |
|                      |    |          |                        |      |      |      |      | 100    | 305   | 38.0 | 17.3 |

#### Schlage Coax (NEC CM and CEC CM FT1)

| Series 6 • RG-6 Type |    |          |                        |      |      |      |      |        |       |      |      |
|----------------------|----|----------|------------------------|------|------|------|------|--------|-------|------|------|
| 5399B5               | 18 | solid BC | Duobond + 60% AL braid | .180 | 4.50 | .270 | 6.86 | U-500  | U-152 | 15.0 | 6.8  |
|                      |    |          |                        |      |      |      |      | 500    | 152   | 15.5 | 7.0  |
|                      |    |          |                        |      |      |      |      | U-1000 | U-305 | 31.0 | 14.1 |
|                      |    |          |                        |      |      |      |      | 1000   | 305   | 30.0 | 13.6 |

AL = Aluminum • BC = Bare Copper

\* Other jacket colors available. Consult [www.belden.com](http://www.belden.com).

\*\* Quad Shield = Duofoil tape + 60% aluminum braid + Duofoil tape + 40% aluminum braid.



## Security Composite Cable

CCTV plus Audio or Pan and Tilt CCTV Control Applications  
Plenum-Rated and Non-Plenum



### Composite: Coax plus Twisted Pair CM FT1 Rated

#### Product Description

**Coax:** Bare copper conductor, foam polyolefin insulation, bare copper braid shield. Black PVC jacket.

**Pair:** PVC insulation, PVC jacket.  
Color coded: Black & Red.

### Plenum-Rated Composite CMP FT6 Rated

#### Product Description

**Coax:** Bare copper conductor, foam FEP insulation, bare copper braid shield, Natural Flamarrest® jacket.

**Pair:** Halar® insulation, Natural Flamarrest jacket.  
Color coded: Black & Red.

Coax and pair in Siamese configuration.  
Sequential footage marking every two feet.

#### Specifications

|                                 |                   |
|---------------------------------|-------------------|
| <b>Conductor</b>                | Bare Copper       |
| <b>Insulation (Non-Plenum)</b>  |                   |
| Coax                            | FPO               |
| Pair                            | PVC               |
| <b>Insulation (Plenum)</b>      |                   |
| Coax                            | Foam FEP          |
| Pair                            | Halar             |
| <b>Shield (Coax)</b>            | Bare Copper Braid |
| <b>Jacket</b>                   |                   |
| Non-Plenum                      | PVC               |
| Plenum                          | Flamarrest        |
| <b>Approvals (Non-Plenum)</b>   |                   |
| NEC                             | CM                |
| CEC                             | CM FT1            |
| <b>NEC Articles</b>             | 800               |
| <b>Approvals (Plenum)</b>       |                   |
| NEC                             | CMP               |
| CEC                             | CMP FT6           |
| <b>Nominal Impedance (Coax)</b> | 75Ω               |
| <b>Temperature Rating</b>       | 75°C              |

#### Applications

- CCTV plus Audio
- Pan and Tilt CCTV Control



| Part No. | AWG | Stranding and Conductor | Shield/Braid Coverage | Insulation Nominal OD |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    |
|----------|-----|-------------------------|-----------------------|-----------------------|----|------------|----|------------------|---|----------------------|----|
|          |     |                         |                       | Inch                  | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |

### Composite: Coax plus Twisted Pair (NEC CM and CEC CM FT1)

| RG-59 Type |        |          |            |      |      |      |       |      |     |      |      |
|------------|--------|----------|------------|------|------|------|-------|------|-----|------|------|
| 549945     | 20(cx) | solid BC | 95% BC     | .145 | 3.68 | .232 | 5.89  | 500  | 152 | 30.0 | 13.6 |
|            | 18(pr) | 7/w BC   | unshielded | .066 | 1.68 | x    | x     | 1000 | 305 | 60.0 | 27.3 |
|            |        |          |            |      |      | .460 | 11.68 |      |     |      |      |

| RG-6 Type |        |          |            |      |      |      |       |      |     |      |      |
|-----------|--------|----------|------------|------|------|------|-------|------|-----|------|------|
| 539945    | 18(cx) | solid BC | 95% BC     | .180 | 4.57 | .266 | 6.76  | 500  | 152 | 34.0 | 15.5 |
|           | 18(pr) | 7/w BC   | unshielded | .066 | 1.68 | x    | x     | 1000 | 305 | 70.0 | 31.8 |
|           |        |          |            |      |      | .500 | 12.70 |      |     |      |      |

### Plenum-Rated Composite (NEC CMP and CEC CMP FT6)

| RG-59 Type |        |          |            |      |      |      |      |      |     |      |      |
|------------|--------|----------|------------|------|------|------|------|------|-----|------|------|
| 649948     | 20(cx) | solid BC | 95% BC     | .134 | 3.40 | .199 | 5.05 | 1000 | 305 | 52.0 | 23.6 |
|            | 18(pr) | 7/w BC   | unshielded | .059 | 1.50 | x    | x    |      |     |      |      |
|            |        |          |            |      |      | .383 | 9.72 |      |     |      |      |

| RG-6 Type |        |          |            |      |      |      |       |      |     |      |      |
|-----------|--------|----------|------------|------|------|------|-------|------|-----|------|------|
| 639948    | 18(cx) | solid BC | 95% BC     | .170 | 4.32 | .232 | 5.89  | 1000 | 305 | 61.0 | 27.7 |
|           | 18(pr) | 7/w BC   | unshielded | .059 | 1.50 | x    | x     |      |     |      |      |
|           |        |          |            |      |      | .416 | 10.57 |      |     |      |      |

BC = Bare Copper • cx = Coax • pr = Pair

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## Security Coaxial Cable

CCTV Applications

Plenum-Rated



### Plenum-Rated Coax

CMP FT6 Rated

#### Product Description

Bare copper or copper-covered steel conductor, foam FEP insulation, bare copper braid shield. Natural Flamarrest® jacket (except 613948 which is White fluorocopolymer). Sequential footage marking every two feet.

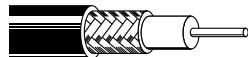
#### Specifications

|                           |                   |
|---------------------------|-------------------|
| <b>Conductor</b>          | Solid BC or BCCS  |
| <b>Insulation</b>         | Foam FEP          |
| <b>Shield</b>             | Bare Copper Braid |
| <b>Jacket</b>             | Flamarrest*       |
| <b>Approvals</b>          |                   |
| NEC                       | CMP               |
| CEC                       | CMP FT6           |
| <b>NEC Articles</b>       | 800               |
| <b>Nominal Impedance</b>  | 75Ω               |
| <b>Temperature Rating</b> | 75°C              |

\*613948 jacket is White fluorocopolymer.

#### Applications

- CCTV



| Part No. | AWG | Stranding and Conductor | Shield/Braid Coverage | Insulation Nominal OD |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    |
|----------|-----|-------------------------|-----------------------|-----------------------|----|------------|----|------------------|---|----------------------|----|
|          |     |                         |                       | Inch                  | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |

#### Plenum-Rated Coax (NEC CMP and CEC CMP FT6)

##### Mini RG-59 Type

|               |    |          |        |      |      |      |      |        |       |      |     |
|---------------|----|----------|--------|------|------|------|------|--------|-------|------|-----|
| <b>673948</b> | 25 | solid BC | 95% BC | .078 | 1.98 | .146 | 3.71 | U-500  | U-152 | 9.5  | 4.3 |
| <b>new</b>    |    |          |        |      |      |      |      | U-1000 | U-305 | 18.0 | 8.2 |
|               |    |          |        |      |      |      |      | 1000   | 305   | 18.0 | 8.2 |

##### RG-62 Type

|               |    |            |        |      |      |      |      |        |       |      |      |
|---------------|----|------------|--------|------|------|------|------|--------|-------|------|------|
| <b>6539Y8</b> | 22 | solid BCCS | 95% BC | .146 | 3.71 | .204 | 5.18 | U-1000 | U-305 | 32.0 | 14.5 |
|               |    |            |        |      |      |      |      | 1000   | 305   | 33.0 | 15.0 |

##### RG-59 Type

|               |    |          |        |      |      |      |      |        |       |      |      |
|---------------|----|----------|--------|------|------|------|------|--------|-------|------|------|
| <b>643948</b> | 20 | solid BC | 95% BC | .135 | 3.43 | .193 | 4.90 | U-500  | U-152 | 16.0 | 7.3  |
|               |    |          |        |      |      |      |      | 500    | 152   | 17.5 | 8.0  |
|               |    |          |        |      |      |      |      | U-1000 | U-305 | 31.0 | 14.1 |
|               |    |          |        |      |      |      |      | 1000   | 305   | 32.0 | 14.5 |

##### RG-6 Type

|               |    |          |        |      |      |      |      |        |       |      |      |
|---------------|----|----------|--------|------|------|------|------|--------|-------|------|------|
| <b>633948</b> | 18 | solid BC | 95% BC | .170 | 4.32 | .228 | 5.79 | U-500  | U-152 | 21.0 | 9.5  |
|               |    |          |        |      |      |      |      | 500    | 152   | 22.0 | 10.0 |
|               |    |          |        |      |      |      |      | U-1000 | U-305 | 41.0 | 18.6 |
|               |    |          |        |      |      |      |      | 1000   | 305   | 42.0 | 19.1 |

##### RG-11 Type

|               |    |          |        |      |      |      |      |      |     |      |      |
|---------------|----|----------|--------|------|------|------|------|------|-----|------|------|
| <b>613948</b> | 14 | solid BC | 95% BC | .274 | 6.96 | .348 | 8.84 | 500  | 152 | 46.0 | 20.9 |
|               |    |          |        |      |      |      |      | 1000 | 305 | 90.0 | 40.9 |

BC = Bare Copper • BCCS = Bare Copper-covered Steel

# Security Coaxial Cable

Commercial CATV or MATV Applications  
Plenum-Rated



## Plenum-Rated Coax

CMP FT6 Rated

### Product Description

Solid bare copper (except 6339Q8 which has solid bare copper-covered steel) conductor. Foam FEP insulation. Foil plus aluminum braid shield(s) as indicated. Natural Flamarrest® jacket (except 6139B8 which is White fluorocopolymer). Sequential footage marking every two feet.

### Specifications

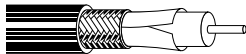
|                           |                              |
|---------------------------|------------------------------|
| <b>Conductor</b>          | Solid BC or BCCS             |
| <b>Insulation</b>         | Foam FEP                     |
| <b>Shield</b>             | Duofoil® + Aluminum Braid(s) |
| <b>Jacket</b>             | Flamarrest*                  |
| <b>Approvals</b>          |                              |
| NEC                       | CMP                          |
| CEC                       | CMP FT6                      |
| <b>NEC Articles</b>       | 820                          |
| <b>Nominal Impedance</b>  | 75Ω                          |
| <b>Temperature Rating</b> | 75°C                         |

\*6139B8 jacket is White fluorocopolymer.

### Applications

- CATV
- MATV

#### Duofoil + Braid Shield



#### Quad Shield



| Part No. | AWG | Stranding and Conductor | Shield/Braid Coverage | Insulation Nominal OD |    | Nominal OD |    | Standard Lengths |   | Standard Unit Weight |    |
|----------|-----|-------------------------|-----------------------|-----------------------|----|------------|----|------------------|---|----------------------|----|
|          |     |                         |                       | Inch                  | mm | Inch       | mm | Ft.              | m | Lbs.                 | kg |

### Plenum-Rated Coax (NEC CMP and CEC CMP FT6)

#### Series 59 • RG-59 Type

|               |    |          |                        |      |      |      |      |      |     |      |     |
|---------------|----|----------|------------------------|------|------|------|------|------|-----|------|-----|
| <b>6439C8</b> | 20 | solid BC | Duofoil + 80% AL braid | .135 | 3.43 | .199 | 5.05 | 1000 | 305 | 21.0 | 9.5 |
|---------------|----|----------|------------------------|------|------|------|------|------|-----|------|-----|

|               |    |          |       |      |      |      |      |        |       |      |      |
|---------------|----|----------|-------|------|------|------|------|--------|-------|------|------|
| <b>6439Q8</b> | 20 | solid BC | Quad† | .135 | 3.43 | .223 | 5.66 | U-1000 | U-305 | 34.0 | 15.5 |
|---------------|----|----------|-------|------|------|------|------|--------|-------|------|------|

#### Series 6 • RG-6 Type

|               |    |          |                        |      |      |      |      |        |       |      |      |
|---------------|----|----------|------------------------|------|------|------|------|--------|-------|------|------|
| <b>633938</b> | 18 | solid BC | Duofoil + 80% AL braid | .170 | 4.32 | .233 | 5.92 | U-500  | U-152 | 15.0 | 6.8  |
|               |    |          |                        |      |      |      |      | 500    | 152   | 16.5 | 7.5  |
|               |    |          |                        |      |      |      |      | U-1000 | U-305 | 30.0 | 13.6 |
|               |    |          |                        |      |      |      |      | 1000   | 305   | 31.0 | 14.1 |

|               |    |            |       |      |      |      |      |        |       |      |      |
|---------------|----|------------|-------|------|------|------|------|--------|-------|------|------|
| <b>6339Q8</b> | 18 | solid BCCS | Quad† | .170 | 4.32 | .248 | 6.30 | 500    | 152   | 23.5 | 10.7 |
|               |    |            |       |      |      |      |      | U-1000 | U-305 | 42.0 | 19.1 |
|               |    |            |       |      |      |      |      | 1000   | 305   | 43.0 | 19.5 |

#### Series 11 • RG-11 Type

|               |    |          |                        |      |      |      |      |      |     |      |      |
|---------------|----|----------|------------------------|------|------|------|------|------|-----|------|------|
| <b>6139B8</b> | 14 | solid BC | Duofoil + 60% AL braid | .274 | 6.96 | .348 | 8.84 | 1000 | 305 | 66.0 | 30.0 |
|---------------|----|----------|------------------------|------|------|------|------|------|-----|------|------|

AL = Aluminum • BC = Bare Copper • BCCS = Bare Copper-covered Steel

†Quad Shield: Duofoil tape + 60% copper braid + Duofoil tape + 40% copper braid.



By:



**INTERSTATE WIRE CO.**  
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**1-800-527-0010**

# Fire Alarm Cable

Commercial Applications  
Power-Limited



## Unshielded Multi-conductor FPLR/CMG FT4 Rated

### Product Description

Bare copper conductors, PVC insulation, conductors cabled together, Red PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                                |                |
|--------------------------------|----------------|
| <b>Conductor</b>               | Bare Copper    |
| <b>Insulation</b>              | PVC            |
| <b>Jacket</b>                  | PVC            |
| <b>Jacket Thickness</b>        | .015" (.381mm) |
| <b>Approvals</b>               |                |
| NEC                            | FPLR           |
| CEC (22–16 AWG only)           | CMG FT4        |
| California State Fire Marshall |                |
| <b>NEC Articles</b>            | 760            |
| <b>Voltage Rating</b>          | 300V           |
| <b>Temperature Rating</b>      | 75°C           |

### Applications

- Fire Protection
- Alarm
- Signal
- Monitor/Detection
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits



### Color Code Chart

| Cond. No. | Color     |
|-----------|-----------|
| 1         | Black     |
| 2         | Red       |
| 3         | Brown     |
| 4         | Blue      |
| 5         | Orange    |
| 6         | Yellow    |
| 7         | Purple    |
| 8         | Green     |
| 9         | Red/Black |
| 10        | Red/White |
| 11        | Red/Green |
| 12        | Red/Blue  |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|----------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

### Unshielded Multi-conductor (NEC FPLR and CEC CMG FT4)

|                              |    |       |                                |                              |                              |                            |      |     |      |      |
|------------------------------|----|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| <b>22 AWG</b>                |    |       |                                |                              |                              |                            |      |     |      |      |
| 5522UL                       | 4  | solid | U-1000<br>1000                 | U-305<br>305                 | 16.0<br>16.0                 | 7.3<br>7.3                 | .010 | .25 | .125 | 3.18 |
| 5524UL<br><small>new</small> | 6  | solid | U-1000<br>1000                 | U-305<br>305                 | 22.0<br>22.0                 | 10.0<br>10.0               | .010 | .25 | .168 | 4.27 |
| 5526UL<br><small>new</small> | 8  | solid | U-1000<br>1000                 | U-305<br>305                 | 28.0<br>28.0                 | 12.7<br>12.7               | .010 | .25 | .182 | 4.62 |
| <b>18 AWG</b>                |    |       |                                |                              |                              |                            |      |     |      |      |
| 5320UL                       | 2  | solid | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 8.5<br>8.5<br>17.0<br>17.0   | 3.9<br>3.9<br>7.7<br>7.7   | .010 | .25 | .151 | 3.84 |
| 5322UL                       | 4  | solid | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 15.5<br>15.0<br>30.0<br>30.0 | 7.0<br>6.8<br>13.6<br>13.6 | .010 | .25 | .176 | 4.47 |
| 5324UL                       | 6  | solid | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 23.5<br>43.0<br>45.0         | 10.7<br>19.5<br>20.5       | .010 | .25 | .212 | 5.38 |
| 5326UL                       | 8  | solid | 500<br>1000                    | 152<br>305                   | 31.0<br>61.0                 | 14.1<br>27.7               | .010 | .25 | .230 | 5.84 |
| 5328UL<br><small>new</small> | 10 | solid | 1000                           | 305                          | 71.0                         | 32.3                       | .010 | .25 | .272 | 6.91 |
| 5329UL<br><small>new</small> | 12 | solid | 1000                           | 305                          | 83.0                         | 37.7                       | .010 | .25 | .281 | 7.14 |
| <b>16 AWG</b>                |    |       |                                |                              |                              |                            |      |     |      |      |
| 5220UL                       | 2  | solid | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 13.0<br>13.0<br>24.0<br>25.0 | 5.9<br>5.9<br>10.9<br>11.4 | .010 | .25 | .174 | 4.42 |
| 5222UL                       | 4  | solid | 1000                           | 305                          | 45.0                         | 20.5                       | .010 | .25 | .201 | 5.11 |
| <b>14 AWG</b>                |    |       |                                |                              |                              |                            |      |     |      |      |
| 5120UL                       | 2  | solid | 500<br>1000                    | 152<br>305                   | 19.0<br>38.0                 | 8.6<br>17.3                | .013 | .33 | .213 | 5.41 |
| 5122UL                       | 4  | solid | 500<br>1000                    | 152<br>305                   | 35.0<br>70.0                 | 15.9<br>31.8               | .013 | .33 | .251 | 6.38 |
| <b>12 AWG</b>                |    |       |                                |                              |                              |                            |      |     |      |      |
| 5020UL                       | 2  | solid | 1000                           | 305                          | 59.0                         | 26.8                       | .013 | .33 | .244 | 6.20 |

# Fire Alarm Cable

Commercial Applications  
Shielded, Power-Limited



## Shielded Multi-conductor

FPLR/CMG FT4 Rated

### Product Description

Bare copper conductors, PVC insulation, conductors cabled together, Beldfoil® shield and drain wire, Red PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                                |                |
|--------------------------------|----------------|
| <b>Conductor</b>               | Bare Copper    |
| <b>Insulation</b>              | PVC            |
| <b>Shield</b>                  | Beldfoil       |
| <b>Jacket</b>                  | PVC            |
| <b>Jacket Thickness</b>        | .015" (.381mm) |
| <b>Approvals</b>               |                |
| NEC                            | FPLR           |
| CEC (22-16 AWG only)           | CMG FT4        |
| California State Fire Marshall |                |
| <b>NEC Articles</b>            | 760            |
| <b>Voltage Rating</b>          | 300V           |
| <b>Temperature Rating</b>      | 75°C           |

### Applications

- Fire Protection
- Alarm
- Signal
- Monitor/Detection
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits



Shorting Fold

### Color Code Chart

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | Red   |
| 3         | Brown |
| 4         | Blue  |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|----------------------|----|------------|----|
|          |              |           | Fl.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

### Shielded Multi-conductor (NEC FPLR and CEC CMG FT4)

|               |   |       |                                |                              |                              |                            |      |     |      |      |
|---------------|---|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| <b>22 AWG</b> |   |       |                                |                              |                              |                            |      |     |      |      |
| 5522FL        | 4 | solid | U-1000<br>1000                 | U-305<br>305                 | 19.0<br>19.0                 | 8.6<br>8.6                 | .010 | .25 | .143 | 3.63 |
| <b>18 AWG</b> |   |       |                                |                              |                              |                            |      |     |      |      |
| 5320FL        | 2 | solid | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 11.5<br>11.0<br>21.0<br>21.0 | 5.2<br>5.0<br>9.5<br>9.5   | .010 | .25 | .155 | 3.94 |
| 5322FL        | 4 | solid | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 16.5<br>16.5<br>33.0<br>36.0 | 7.5<br>7.5<br>15.0<br>16.4 | .010 | .25 | .180 | 4.57 |
| <b>16 AWG</b> |   |       |                                |                              |                              |                            |      |     |      |      |
| 5220FL        | 2 | solid | 500<br>1000                    | 152<br>305                   | 16.5<br>29.0                 | 7.5<br>13.2                | .010 | .25 | .178 | 4.52 |
| 5222FL        | 4 | solid | 1000                           | 305                          | 52.0                         | 23.6                       | .010 | .25 | .205 | 5.21 |
| <b>14 AWG</b> |   |       |                                |                              |                              |                            |      |     |      |      |
| 5120FL        | 2 | solid | 500<br>1000                    | 152<br>305                   | 22.0<br>43.0                 | 10.0<br>19.5               | .013 | .33 | .217 | 5.51 |
| 5122FL        | 4 | solid | 1000                           | 305                          | 79.0                         | 35.9                       | .013 | .33 | .255 | 6.48 |
| <b>12 AWG</b> |   |       |                                |                              |                              |                            |      |     |      |      |
| 5020FL        | 2 | solid | 1000                           | 305                          | 64.0                         | 29.1                       | .013 | .33 | .251 | 6.38 |



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1-800-527-0010

## Fire Alarm Cable

Commercial Applications, Addressable Systems  
Unshielded and Shielded, Power-Limited, Mid-Capacitance



### Unshielded Multi-conductor

FPL Rated

#### Product Description

Bare copper conductors, foam polyethylene insulation, cabled together, Red PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** Black, Red.

### Shielded Multi-conductor

FPL Rated

#### Product Description

Bare copper conductors, foam polyethylene insulation, cabled together, Beldfoil® shield tape (aluminum side out), Red PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

#### Specifications

|                                  |                |
|----------------------------------|----------------|
| <b>Conductor</b>                 | Bare Copper    |
| <b>Insulation</b>                | FPE            |
| <b>Shield</b> (where applicable) | Beldfoil       |
| <b>Jacket</b>                    | PVC            |
| <b>Jacket Thickness</b>          | .033" (.838mm) |
| <b>Approvals</b>                 |                |
| NEC                              | FPL            |
| California State Fire Marshall   |                |
| <b>NEC Articles</b>              | 760            |
| <b>Voltage Rating</b>            | 300V           |
| <b>Temperature Rating</b>        | 75°C           |
| <b>Nominal Capacitance*</b>      |                |
| Unshielded†                      | 13 pF/ft.      |
| Shielded††                       | 20–36 pF/ft.   |

\*Capacitance between conductors.

†60% lower capacitance than cables on page 13.35

††60% lower capacitance than cables on page 13.36

#### Applications

- Addressable Fire Systems
- Data Circuits
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

#### Color Code Chart

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | Red   |
| 3         | Brown |
| 4         | Blue  |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|----------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

#### Unshielded Multi-conductor (NEC FPL)

| 18 AWG |   |       |        |       |      |      |      |     |      |      |
|--------|---|-------|--------|-------|------|------|------|-----|------|------|
| 5320UJ | 2 | solid | U-500  | U-152 | 11.5 | 5.2  | .015 | .38 | .206 | 5.23 |
|        |   |       | U-1000 | U-305 | 23.0 | 10.5 |      |     |      |      |

| 16 AWG |   |       |      |     |      |      |      |     |      |      |
|--------|---|-------|------|-----|------|------|------|-----|------|------|
| 5220UJ | 2 | solid | 500  | 152 | 16.0 | 7.3  | .015 | .38 | .230 | 5.84 |
|        |   |       | 1000 | 305 | 31.0 | 14.1 |      |     |      |      |

#### Shielded Multi-conductor (NEC FPL)

| 18 AWG |   |       |        |       |      |      |      |     |      |      |
|--------|---|-------|--------|-------|------|------|------|-----|------|------|
| 5320FJ | 2 | solid | U-1000 | U-305 | 27.0 | 12.3 | .015 | .38 | .211 | 5.36 |
|        |   |       | 1000   | 305   | 27.0 | 12.3 |      |     |      |      |

|        |   |       |      |     |      |      |      |     |      |      |
|--------|---|-------|------|-----|------|------|------|-----|------|------|
| 5322FJ | 4 | solid | 1000 | 305 | 43.0 | 19.5 | .015 | .38 | .240 | 6.10 |
|--------|---|-------|------|-----|------|------|------|-----|------|------|

| 16 AWG |   |       |        |       |      |      |      |     |      |      |
|--------|---|-------|--------|-------|------|------|------|-----|------|------|
| 5220FJ | 2 | solid | 500    | 152   | 18.5 | 8.4  | .015 | .38 | .235 | 5.97 |
|        |   |       | U-1000 | U-305 | 36.0 | 16.4 |      |     |      |      |
|        |   |       | 1000   | 305   | 36.0 | 16.4 |      |     |      |      |

|        |   |       |      |     |      |      |      |     |      |      |
|--------|---|-------|------|-----|------|------|------|-----|------|------|
| 5222FJ | 4 | solid | 1000 | 305 | 59.0 | 26.8 | .015 | .38 | .269 | 6.83 |
|--------|---|-------|------|-----|------|------|------|-----|------|------|

| 14 AWG |  |  |  |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|--|--|--|
|--------|--|--|--|--|--|--|--|--|--|--|

|        |   |       |      |     |      |      |      |     |      |      |
|--------|---|-------|------|-----|------|------|------|-----|------|------|
| 5120FJ | 2 | solid | 1000 | 305 | 49.0 | 22.3 | .020 | .51 | .279 | 7.09 |
|--------|---|-------|------|-----|------|------|------|-----|------|------|

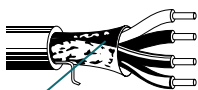
| 12 AWG |  |  |  |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|--|--|--|
|--------|--|--|--|--|--|--|--|--|--|--|

|        |   |       |      |     |      |      |      |     |      |      |
|--------|---|-------|------|-----|------|------|------|-----|------|------|
| 5020FJ | 2 | solid | 1000 | 305 | 69.0 | 31.4 | .020 | .51 | .317 | 8.05 |
|--------|---|-------|------|-----|------|------|------|-----|------|------|

#### Unshielded



#### Shielded



Shorting Fold



# Fire Alarm Cable

NPLF Systems

Unshielded and Shielded, Non-Power-Limited Signaling Cable



## Unshielded Multi-conductor

NPLF Rated

150V Max. Per NEC Article 760

Indoor (Non-conduit per NEC)

### Product Description

Bare copper conductors, PVC/Nylon insulation, cabled together, Red PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

## Shielded Multi-conductor

NPLF Rated

150V Max. Per NEC Article 760

Indoor (Non-conduit per NEC)

### Product Description

Bare copper conductors, PVC/Nylon insulation, cabled together, Beldfoil® shield tape (aluminum side out) plus drain wire, Red PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                                  |                |
|----------------------------------|----------------|
| <b>Conductor</b>                 | Bare Copper    |
| <b>Insulation</b>                | PVC/Nylon      |
| <b>Insulation Thickness</b>      | .021" (.533mm) |
| <b>Shield (where applicable)</b> | Beldfoil       |
| <b>Jacket</b>                    | PVC            |
| <b>Approvals</b>                 |                |
| NEC                              | NPLF           |
| <b>NEC Articles</b>              | 760            |
| <b>Voltage Rating</b>            | 150V           |
| <b>Temperature Rating</b>        | 75°C           |

### Applications

- Fire Alarm
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

### Color Code Chart

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | Red   |
| 3         | Brown |
| 4         | Blue  |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Unshielded Multi-conductor (NEC NPLF)

|                                     |   |       |             |            |              |              |      |      |      |      |
|-------------------------------------|---|-------|-------------|------------|--------------|--------------|------|------|------|------|
| <b>18 AWG</b>                       |   |       |             |            |              |              |      |      |      |      |
| <b>5320UN</b><br><small>new</small> | 2 | solid | 500<br>1000 | 152<br>305 | 17.0<br>31.0 | 7.7<br>14.1  | .037 | .94  | .239 | 6.07 |
| <b>5322UN</b><br><small>new</small> | 4 | solid | 500<br>1000 | 152<br>305 | 28.0<br>51.0 | 12.7<br>23.2 | .042 | 1.07 | .283 | 7.19 |
| <b>16 AWG</b>                       |   |       |             |            |              |              |      |      |      |      |
| <b>5220UN</b><br><small>new</small> | 2 | solid | 500<br>1000 | 152<br>305 | 22.0<br>39.0 | 10.0<br>17.7 | .037 | .94  | .262 | 6.65 |
| <b>5222UN</b><br><small>new</small> | 4 | solid | 500<br>1000 | 152<br>305 | 38.0<br>71.0 | 17.3<br>32.3 | .042 | 1.07 | .311 | 7.90 |
| <b>14 AWG</b>                       |   |       |             |            |              |              |      |      |      |      |
| <b>5120UN</b><br><small>new</small> | 2 | solid | 500<br>1000 | 152<br>305 | 28.5<br>53.0 | 13.0<br>24.1 | .042 | 1.07 | .299 | 7.59 |

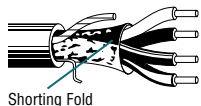
### Shielded Multi-conductor (NEC NPLF)

|                                     |   |       |             |            |               |              |      |      |      |      |
|-------------------------------------|---|-------|-------------|------------|---------------|--------------|------|------|------|------|
| <b>18 AWG</b>                       |   |       |             |            |               |              |      |      |      |      |
| <b>5320FN</b><br><small>new</small> | 2 | solid | 500<br>1000 | 152<br>305 | 18.5<br>35.0  | 8.4<br>15.9  | .037 | .94  | .243 | 6.17 |
| <b>5322FN</b><br><small>new</small> | 4 | solid | 500<br>1000 | 152<br>305 | 31.0<br>57.0  | 14.1<br>25.9 | .042 | 1.07 | .287 | 7.29 |
| <b>16 AWG</b>                       |   |       |             |            |               |              |      |      |      |      |
| <b>5220FN</b><br><small>new</small> | 2 | solid | 500<br>1000 | 152<br>305 | 24.5<br>45.0  | 11.1<br>20.5 | .037 | .94  | .266 | 6.76 |
| <b>5222FN</b><br><small>new</small> | 4 | solid | 500<br>1000 | 152<br>305 | 40.5<br>76.0  | 18.4<br>34.5 | .042 | 1.07 | .315 | 8.00 |
| <b>14 AWG</b>                       |   |       |             |            |               |              |      |      |      |      |
| <b>5120FN</b><br><small>new</small> | 2 | solid | 500<br>1000 | 152<br>305 | 32.0<br>61.0  | 14.5<br>27.7 | .042 | 1.07 | .303 | 7.70 |
| <b>5122FN</b><br><small>new</small> | 4 | solid | 500<br>1000 | 152<br>305 | 52.5<br>102.0 | 23.9<br>46.4 | .042 | 1.07 | .348 | 8.84 |
| <b>12 AWG</b>                       |   |       |             |            |               |              |      |      |      |      |
| <b>5020FN</b><br><small>new</small> | 2 | solid | 500<br>1000 | 152<br>305 | 43.0<br>83.0  | 19.5<br>37.7 | .042 | 1.07 | .337 | 8.56 |

### Unshielded



### Shielded



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1-800-527-0010

# Fire Alarm Cable

Commercial Applications

Unshielded and Shielded, Plenum-Rated, Power-Limited



## Unshielded or Shielded Multi-conductor FPLP Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, cabled together, Red Flamarrest jacket with rip cord. Shielded version has overall Beldfoil® shield tape (aluminum side out) and drain wire. Sequential footage marking every two feet.

**Color Code:** See chart below.

### Specifications

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| <b>Conductor</b>                 | Bare Copper                                |
| <b>Insulation</b>                | Flamarrest                                 |
| <b>Shield</b> (where applicable) | Beldfoil                                   |
| <b>Jacket</b>                    | Flamarrest                                 |
| <b>Jacket Thickness</b>          | .015" (.381mm)                             |
| <b>Approvals</b>                 | NEC FPLP<br>California State Fire Marshall |
| <b>NEC Articles</b>              | 760                                        |
| <b>Voltage Rating</b>            | 300V                                       |
| <b>Temperature Rating</b>        | 75°C                                       |

### Applications

- Fire Protection
- Alarm
- Signal
- Monitor/Detection
- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

#### Unshielded



#### Shielded



Shorting Fold

### Color Code Chart

| Cond. No. | Color  | Cond. No. | Color     |
|-----------|--------|-----------|-----------|
| 1         | Black  | 6         | Yellow    |
| 2         | Red    | 7         | Purple    |
| 3         | Brown  | 8         | Green     |
| 4         | Blue   | 9         | Red/Black |
| 5         | Orange | 10        | Red/White |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|----------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

### Unshielded Multi-conductor (NEC FPLP)

| 22 AWG |    |       |                       |                     |                      |                     |      |     |      |      |
|--------|----|-------|-----------------------|---------------------|----------------------|---------------------|------|-----|------|------|
| 6522UL | 4  | solid | U-1000<br>1000        | U-305<br>305        | 16.0<br>16.0         | 7.3<br>7.3          | .009 | .23 | .136 | 3.45 |
| 6524UL | 6  | solid | U-1000<br>1000        | U-305<br>305        | 22.0<br>22.0         | 10.0<br>10.0        | .009 | .23 | .160 | 4.06 |
| 18 AWG |    |       |                       |                     |                      |                     |      |     |      |      |
| 6320UL | 2  | solid | U-500<br>500          | U-152<br>152        | 9.0<br>9.0           | 4.1<br>4.1          | .010 | .25 | .151 | 3.84 |
|        |    |       | U-1000<br>1000        | U-305<br>305        | 17.0<br>18.0         | 7.7<br>8.2          |      |     |      |      |
| 6321UL | 3  | solid | 1000                  | 305                 | 28.0                 | 12.7                | .010 | .25 | .160 | 4.06 |
| 6322UL | 4  | solid | U-1000<br>1000        | U-305<br>305        | 32.0<br>31.0         | 14.5<br>14.1        | .010 | .25 | .176 | 4.47 |
| 6324UL | 6  | solid | U-1000<br>1000        | U-305<br>305        | 45.0<br>46.0         | 20.5<br>20.9        | .010 | .25 | .212 | 5.38 |
| 6326UL | 8  | solid | 1000                  | 305                 | 63.0                 | 28.6                | .010 | .25 | .230 | 5.84 |
| 6328UL | 10 | solid | U-500<br>1000         | U-152<br>305        | 37.0<br>73.0         | 16.8<br>33.2        | .010 | .25 | .272 | 6.91 |
| 16 AWG |    |       |                       |                     |                      |                     |      |     |      |      |
| 6220UL | 2  | solid | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 12.5<br>25.0<br>26.0 | 5.7<br>11.4<br>11.8 | .010 | .25 | .172 | 4.37 |
| 6222UL | 4  | solid | 500<br>1000           | 152<br>305          | 24.5<br>47.0         | 11.1<br>21.4        | .010 | .25 | .201 | 5.11 |
| 14 AWG |    |       |                       |                     |                      |                     |      |     |      |      |
| 6120UL | 2  | solid | 500<br>1000           | 152<br>305          | 21.0<br>38.0         | 9.5<br>17.3         | .011 | .28 | .205 | 5.21 |
| 6122UL | 4  | solid | 500<br>1000           | 152<br>305          | 35.5<br>74.0         | 16.1<br>33.6        | .011 | .28 | .247 | 6.27 |
| 12 AWG |    |       |                       |                     |                      |                     |      |     |      |      |
| 6020UL | 2  | solid | 500<br>1000           | 152<br>305          | 27.5<br>59.0         | 12.5<br>26.8        | .011 | .28 | .239 | 6.07 |

### Shielded Multi-conductor (NEC FPLP)

| 18 AWG |   |       |                       |                     |                      |                     |      |     |      |      |
|--------|---|-------|-----------------------|---------------------|----------------------|---------------------|------|-----|------|------|
| 6320FL | 2 | solid | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 11.0<br>22.0<br>22.0 | 5.0<br>10.0<br>10.0 | .010 | .25 | .158 | 4.01 |
| 6322FL | 4 | solid | 1000                  | 305                 | 36.0                 | 16.4                | .010 | .25 | .120 | 3.05 |
| 16 AWG |   |       |                       |                     |                      |                     |      |     |      |      |
| 6220FL | 2 | solid | 500<br>1000           | 152<br>305          | 15.5<br>31.0         | 7.0<br>14.1         | .010 | .25 | .176 | 4.47 |
| 6222FL | 4 | solid | 1000                  | 305                 | 58.0                 | 26.4                | .010 | .25 | .205 | 5.21 |
| 14 AWG |   |       |                       |                     |                      |                     |      |     |      |      |
| 6120FL | 2 | solid | 500<br>1000           | 152<br>305          | 23.5<br>45.0         | 10.7<br>20.5        | .011 | .28 | .212 | 5.38 |
| 6122FL | 4 | solid | 500<br>1000           | 152<br>305          | 42.0<br>81.0         | 19.1<br>36.8        | .011 | .28 | .248 | 6.30 |
| 12 AWG |   |       |                       |                     |                      |                     |      |     |      |      |
| 6020FL | 2 | solid | 500<br>1000           | 152<br>305          | 30.5<br>65.0         | 13.9<br>29.5        | .011 | .28 | .246 | 6.25 |





## Fire Alarm Cable

Commercial Applications, Addressable Systems

Unshielded and Shielded, Plenum-Rated, Power-Limited, Mid-Capacitance



### Unshielded Multi-conductor

FPLP Rated

#### Product Description

Bare copper conductors, Halar® insulation, cabled together, Red Flammarrest® jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** Black, Red.

### Shielded Multi-conductor

FPLP Rated

#### Product Description

Bare copper conductors, Halar insulation, cabled together, Beldfoil® shield tape (aluminum side out) with tinned copper drain wire, Red Flammarrest jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** Black, Red.

#### Specifications

|                                  |                |
|----------------------------------|----------------|
| <b>Conductor</b>                 | Bare Copper    |
| <b>Insulation</b>                | Halar          |
| <b>Shield</b> (where applicable) | Beldfoil       |
| <b>Jacket</b>                    | Flammarrest    |
| <b>Jacket Thickness</b>          | .015" (.381mm) |
| <b>Approvals</b>                 |                |
| NEC                              | FPLP           |
| California State Fire Marshall   |                |
| <b>NEC Articles</b>              | 760            |
| <b>Voltage Rating</b>            | 300V           |
| <b>Temperature Rating</b>        | 75°C           |
| <b>Nominal Capacitance*</b>      |                |
| Unshielded†                      | 26 pF/ft.      |
| Shielded††                       | 26–31 pF/ft.   |

\*Capacitance between conductors.

†20% lower capacitance than cables on page 13.39

††60% lower capacitance than cables on page 13.39

#### Applications

- Addressable Fire Systems
- Data Circuits
- Monitor/Detection
- Control Circuits
- Initiating Circuits
- Notification Circuits

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|----------------------|----|------------|----|
|          |              |           | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

#### Unshielded Multi-conductor (NEC FPLP)

|               |   |       |      |     |      |      |      |     |      |      |
|---------------|---|-------|------|-----|------|------|------|-----|------|------|
| <b>18 AWG</b> |   |       |      |     |      |      |      |     |      |      |
| <b>6320UJ</b> | 2 | solid | 1000 | 305 | 17.0 | 7.7  | .007 | .18 | .138 | 3.51 |
| <b>16 AWG</b> |   |       |      |     |      |      |      |     |      |      |
| <b>6220UJ</b> | 2 | solid | 1000 | 305 | 26.0 | 11.8 | .007 | .18 | .162 | 4.11 |
| <b>14 AWG</b> |   |       |      |     |      |      |      |     |      |      |
| <b>6120UJ</b> | 2 | solid | 1000 | 305 | 36.0 | 16.4 | .010 | .25 | .198 | 5.03 |

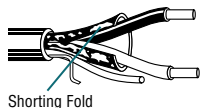
#### Shielded Multi-conductor (NEC FPLP)

|               |   |       |        |       |      |      |      |     |      |      |
|---------------|---|-------|--------|-------|------|------|------|-----|------|------|
| <b>18 AWG</b> |   |       |        |       |      |      |      |     |      |      |
| <b>6320FK</b> | 2 | solid | 500    | 152   | 15.0 | 6.8  | .024 | .61 | .210 | 5.33 |
| <b>new</b>    |   |       | U-1000 | U-305 | 29.0 | 13.2 |      |     |      |      |
|               |   |       | 1000   | 305   | 29.0 | 13.2 |      |     |      |      |
| <b>16 AWG</b> |   |       |        |       |      |      |      |     |      |      |
| <b>6220FK</b> | 2 | solid | 500    | 152   | 19.5 | 8.9  | .024 | .61 | .234 | 5.94 |
| <b>new</b>    |   |       | 1000   | 305   | 39.0 | 17.7 |      |     |      |      |

#### Unshielded



#### Shielded



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1-800-527-0010

## Audio Cable

### Commercial Audio Systems



#### Unshielded Multi-conductor

CMR/CMG FT4 Rated or CL3R Rated

#### Product Description

Bare copper conductors, PVC insulation, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

#### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> |                |
| 22 to 16 AWG                | .010" (.254mm) |
| 14 to 12 AWG                | .014" (.356mm) |
| <b>NEC Articles</b>         | 725            |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC (22 to 16 AWG)          | CMR            |
| CEC (22 to 16 AWG)          | CMG FT4        |
| NEC (14 to 12 AWG)          | CL3R           |
| <b>NEC Articles</b>         |                |
| 22 to 16 AWG                | 800            |
| 14 to 12 AWG                | 725            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

#### Applications

- Intercom/PA Systems
- Sound/Audio Systems

#### Solid Conductor



#### Stranded Conductor



#### Color Code Chart

(22 to 16 AWG)

(14 to 12 AWG)

| Cond. No. | Color | Cond. No. | Color |
|-----------|-------|-----------|-------|
| 1         | Black | 1         | Black |
| 2         | Red   | 2         | White |
| 3         | White | 3         | Red   |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Unshielded Multi-conductor (NEC CMR and CEC CMG FT4)

| 22 AWG  |   |       |        |       |      |      |      |     |      |      |
|---------|---|-------|--------|-------|------|------|------|-----|------|------|
| 5520UE  | 2 | solid | U-500  | U-152 | 5.0  | 2.3  | .015 | .38 | .122 | 3.10 |
|         |   |       | U-1000 | U-305 | 9.0  | 4.1  |      |     |      |      |
|         |   |       | 1000   | 305   | 9.0  | 4.1  |      |     |      |      |
| 5500UE  | 2 | 7     | U-500  | U-152 | 5.5  | 2.5  | .015 | .38 | .128 | 3.25 |
|         |   |       | 500    | 152   | 5.5  | 2.5  |      |     |      |      |
|         |   |       | U-1000 | U-305 | 10.0 | 4.5  |      |     |      |      |
|         |   |       | 1000   | 305   | 9.0  | 4.1  |      |     |      |      |
| 5501UE  | 3 | 7     | 500    | 152   | 6.5  | 3.0  | .015 | .38 | .135 | 3.43 |
|         |   |       | U-1000 | U-305 | 13.0 | 5.9  |      |     |      |      |
|         |   |       | 1000   | 305   | 13.0 | 5.9  |      |     |      |      |
| 20 AWG  |   |       |        |       |      |      |      |     |      |      |
| 5400UE  | 2 | 7     | U-1000 | U-305 | 13.0 | 5.9  | .015 | .38 | .142 | 3.61 |
|         |   |       | 1000   | 305   | 13.0 | 5.9  |      |     |      |      |
| 5401UE  | 3 | 7     | 500    | 152   | 9.0  | 4.1  | .015 | .38 | .150 | 3.81 |
|         |   |       | U-1000 | U-305 | 18.0 | 8.2  |      |     |      |      |
|         |   |       | 1000   | 305   | 18.0 | 8.2  |      |     |      |      |
| 18 AWG  |   |       |        |       |      |      |      |     |      |      |
| 5320UE  | 2 | solid | U-1000 | U-305 | 17.0 | 7.7  | .015 | .38 | .151 | 3.84 |
| 5300UE* | 2 | 7     | U-500  | U-152 | 9.0  | 4.1  | .015 | .38 | .161 | 4.09 |
|         |   |       | 500    | 152   | 9.5  | 4.3  |      |     |      |      |
|         |   |       | U-1000 | U-305 | 18.0 | 8.2  |      |     |      |      |
|         |   |       | 1000   | 305   | 18.0 | 8.2  |      |     |      |      |
| 5321UE  | 3 | solid | 500    | 152   | 11.5 | 5.2  | .015 | .38 | .160 | 4.06 |
|         |   |       | U-1000 | U-305 | 23.0 | 10.5 |      |     |      |      |
|         |   |       | 1000   | 305   | 23.0 | 10.5 |      |     |      |      |
| 5301UE  | 3 | 7     | U-500  | U-152 | 13.0 | 5.9  | .015 | .38 | .171 | 4.34 |
|         |   |       | 500    | 152   | 12.5 | 5.7  |      |     |      |      |
|         |   |       | U-1000 | U-305 | 24.0 | 10.9 |      |     |      |      |
|         |   |       | 1000   | 305   | 25.0 | 11.4 |      |     |      |      |
| 16 AWG  |   |       |        |       |      |      |      |     |      |      |
| 5200UE  | 2 | 19    | U-500  | U-152 | 13.0 | 5.9  | .015 | .38 | .184 | 4.67 |
|         |   |       | 500    | 152   | 12.5 | 5.7  |      |     |      |      |
|         |   |       | U-1000 | U-305 | 25.0 | 11.4 |      |     |      |      |
|         |   |       | 1000   | 305   | 25.0 | 11.4 |      |     |      |      |
| 5201UE  | 3 | 19    | U-500  | U-152 | 18.0 | 8.2  | .015 | .38 | .196 | 4.98 |
|         |   |       | 500    | 152   | 18.5 | 8.4  |      |     |      |      |
|         |   |       | U-1000 | U-305 | 35.0 | 15.9 |      |     |      |      |
|         |   |       | 1000   | 305   | 38.0 | 17.3 |      |     |      |      |

#### Unshielded Multi-conductor (NEC CL3R)

| 14 AWG |   |    |        |       |      |      |      |     |      |      |
|--------|---|----|--------|-------|------|------|------|-----|------|------|
| 5100UE | 2 | 19 | 500    | 152   | 19.5 | 8.9  | .015 | .38 | .234 | 5.94 |
|        |   |    | U-1000 | U-305 | 38.0 | 17.3 |      |     |      |      |
|        |   |    | 1000   | 305   | 39.0 | 17.7 |      |     |      |      |
| 5101UE | 3 | 19 | 1000   | 305   | 56.0 | 25.5 | .015 | .38 | .249 | 6.32 |
| 12 AWG |   |    |        |       |      |      |      |     |      |      |
| 5000UE | 2 | 19 | 500    | 152   | 28.5 | 13.0 | .015 | .38 | .268 | 6.81 |
|        |   |    | 1000   | 305   | 57.0 | 25.9 |      |     |      |      |
| 5001UE | 3 | 19 | 1000   | 305   | 82.0 | 37.3 | .015 | .38 | .286 | 7.26 |

\*5300UE also available in White or Black.



## High Strand Audio Cable

Commercial Audio Systems  
High-Flex and High-Purity



### High Strand Unshielded Multi-conductor

CM, CL3 or CL2 Rated

#### Product Description

Bare high-conductivity ETP copper conductors, highly stranded for ultra flexibility, high-grade PVC insulation, PVC jacket with rip cord. Available jacket colors: Blue, Green, White, Black and Gray. Sequential footage marking every two feet.

**Color Code:** See chart below.

#### Specifications

|                             |                                   |          |
|-----------------------------|-----------------------------------|----------|
| <b>Conductor</b>            | Bare High-conductivity ETP Copper |          |
| <b>Insulation</b>           | High-grade PVC                    |          |
| <b>Insulation Thickness</b> |                                   |          |
| 18 AWG to 16 AWG            | .015"                             | (.381mm) |
| 14 AWG to 10 AWG            | .020"                             | (.508mm) |
| <b>Jacket</b>               | PVC                               |          |
| <b>Approvals</b>            |                                   |          |
| NEC (18 AWG & 16 AWG)       | CM                                |          |
| NEC (14 AWG & 12 AWG)       | CL3                               |          |
| NEC (10 AWG)                | CL2, Audio Use Only               |          |
| <b>Temperature Rating</b>   | 75°C                              |          |

#### Applications

- Speaker Systems
- Sound/Audio Systems
- Intercom/PA Systems
- Home Theater and Entertainment Systems
- Stadium and Arena Speaker Systems



| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### High Strand Unshielded Multi-conductor (NEC CM, CL3 or CL2)

| 18 AWG (NEC CM)                                         |   |    |        |       |       |      |      |     |      |      |
|---------------------------------------------------------|---|----|--------|-------|-------|------|------|-----|------|------|
| 5300UP<br><small>new</small>                            | 2 | 42 | U-500  | U-152 | 10.5  | 4.8  | .015 | .38 | .184 | 4.67 |
|                                                         |   |    | 500    | 152   | 12.0  | 5.5  |      |     |      |      |
|                                                         |   |    | U-1000 | U-305 | 20.0  | 9.1  |      |     |      |      |
|                                                         |   |    | 1000   | 305   | 21.0  | 9.5  |      |     |      |      |
| 5302UP<br><small>new</small>                            | 4 | 42 | U-500  | U-152 | 18.0  | 8.2  | .015 | .38 | .216 | 5.49 |
|                                                         |   |    | 500    | 152   | 20.0  | 9.1  |      |     |      |      |
|                                                         |   |    | U-1000 | U-305 | 36.0  | 16.4 |      |     |      |      |
|                                                         |   |    | 1000   | 305   | 37.0  | 16.8 |      |     |      |      |
| 16 AWG (NEC CM)                                         |   |    |        |       |       |      |      |     |      |      |
| 5200UP<br><small>new</small>                            | 2 | 65 | U-500  | U-152 | 14.0  | 6.4  | .015 | .38 | .208 | 5.28 |
|                                                         |   |    | 500    | 152   | 15.5  | 7.0  |      |     |      |      |
|                                                         |   |    | U-1000 | U-305 | 27.0  | 12.3 |      |     |      |      |
|                                                         |   |    | 1000   | 305   | 28.0  | 12.7 |      |     |      |      |
| 5202UP<br><small>new</small>                            | 4 | 65 | U-500  | U-152 | 25.5  | 11.6 | .015 | .38 | .244 | 6.20 |
|                                                         |   |    | 500    | 152   | 27.0  | 12.3 |      |     |      |      |
|                                                         |   |    | U-1000 | U-305 | 51.0  | 23.2 |      |     |      |      |
|                                                         |   |    | 1000   | 305   | 51.0  | 23.2 |      |     |      |      |
| 14 AWG (NEC CL3)                                        |   |    |        |       |       |      |      |     |      |      |
| 5100UP<br><small>new</small>                            | 2 | 42 | U-500  | U-152 | 21.5  | 9.8  | .015 | .38 | .260 | 6.60 |
|                                                         |   |    | 500    | 152   | 23.5  | 10.7 |      |     |      |      |
|                                                         |   |    | U-1000 | U-305 | 42.0  | 19.1 |      |     |      |      |
|                                                         |   |    | 1000   | 305   | 43.0  | 19.5 |      |     |      |      |
| 5102UP<br><small>new</small>                            | 4 | 42 | 500    | 152   | 42.0  | 19.1 | .018 | .46 | .313 | 7.95 |
|                                                         |   |    | 1000   | 305   | 81.0  | 36.8 |      |     |      |      |
| 12 AWG (NEC CL3)                                        |   |    |        |       |       |      |      |     |      |      |
| 5000UP<br><small>new</small>                            | 2 | 65 | U-500  | U-152 | 31.5  | 14.3 | .018 | .46 | .302 | 7.67 |
|                                                         |   |    | 500    | 152   | 33.5  | 15.2 |      |     |      |      |
|                                                         |   |    | 1000   | 305   | 64.0  | 29.1 |      |     |      |      |
| 5002UP<br><small>new</small>                            | 4 | 65 | 500    | 152   | 61.5  | 28.0 | .018 | .46 | .357 | 9.07 |
|                                                         |   |    | 1000   | 305   | 121.0 | 55.0 |      |     |      |      |
| 10 AWG (NEC CL2 • Audio Use Only)                       |   |    |        |       |       |      |      |     |      |      |
| 5T00UP<br><small>new</small>                            | 2 | 65 | 500    | 152   | 44.0  | 20.0 | .026 | .66 | .356 | 9.04 |
|                                                         |   |    | 1000   | 305   | 87.0  | 39.5 |      |     |      |      |
| For Plenum version of 5T00UP, see 6T00UP on page 13.44. |   |    |        |       |       |      |      |     |      |      |

For Plenum version of 5T00UP, see 6T00UP on page 13.44.

#### Color Code Chart

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | White |
| 3         | Red   |
| 4         | Green |



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## Audio Cable

Commercial Audio Systems  
Shielded



### Shielded Multi-conductor

CMR/CMG FT4 Rated or CL3R Rated

#### Product Description

Bare copper conductors, PVC insulation, conductors cabled, Beldfoil® shield tape (aluminum side out) with drain wire, Gray PVC jacket. Sequential footage marking every two feet.

**Color Code:** See chart below.

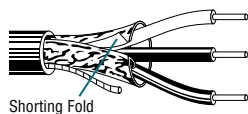
#### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | PVC            |
| <b>Insulation Thickness</b> |                |
| 24 to 16 AWG                | .010" (.254mm) |
| 14 to 12 AWG                | .014" (.356mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | PVC            |
| <b>Approvals</b>            |                |
| NEC (24 to 16 AWG)          | CMR            |
| CEC (24 to 16 AWG)          | CMG FT4        |
| NEC (14 to 12 AWG)          | CL3R           |
| <b>NEC Articles</b>         |                |
| 24 to 16 AWG                | 800            |
| 14 to 12 AWG                | 725            |
| <b>Voltage Rating</b>       | 300V           |
| <b>Temperature Rating</b>   | 75°C           |

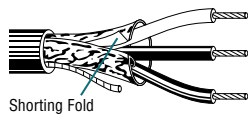
#### Applications

- Intercom/PA Systems
- Sound/Audio Systems

#### Solid Conductor



#### Stranded Conductor



#### Color Code Chart

(24 to 16 AWG) (14 to 12 AWG)

| Cond. No. | Color | Cond. No. | Color |
|-----------|-------|-----------|-------|
| 1         | Black | 1         | Black |
| 2         | Red   | 2         | White |
| 3         | White | 3         | Red   |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Shielded Multi-conductor (NEC CMR and CEC CMG FT4)

|                                     |   |       |                                |                              |                              |                            |      |     |      |      |
|-------------------------------------|---|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| <b>24 AWG</b>                       |   |       |                                |                              |                              |                            |      |     |      |      |
| <b>5600FE</b><br><small>new</small> | 2 | 7     | U-1000<br>1000                 | U-305<br>305                 | 11.0<br>10.0                 | 5.0<br>4.5                 | .015 | .38 | .120 | 3.05 |
| <b>22 AWG</b>                       |   |       |                                |                              |                              |                            |      |     |      |      |
| <b>5520FE</b>                       | 2 | solid | U-1000<br>1000                 | U-305<br>305                 | 14.0<br>14.0                 | 6.4<br>6.4                 | .015 | .38 | .125 | 3.18 |
| <b>5500FE</b>                       | 2 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 6.5<br>6.0<br>12.0<br>11.0   | 3.0<br>2.7<br>5.5<br>5.0   | .015 | .38 | .130 | 3.30 |
| <b>5521FE</b>                       | 3 | solid | U-1000<br>1000                 | U-305<br>305                 | 12.0<br>12.0                 | 5.5<br>5.5                 | .015 | .38 | .132 | 3.35 |
| <b>5501FE</b>                       | 3 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 8.0<br>7.5<br>15.0<br>15.0   | 3.6<br>3.4<br>6.8<br>6.8   | .015 | .38 | .138 | 3.51 |
| <b>20 AWG</b>                       |   |       |                                |                              |                              |                            |      |     |      |      |
| <b>5400FE</b>                       | 2 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 8.5<br>8.0<br>16.0<br>16.0   | 3.9<br>3.6<br>7.3<br>7.3   | .015 | .38 | .145 | 3.68 |
| <b>5421FE</b>                       | 3 | solid | U-1000                         | U-305                        | 20.0                         | 9.1                        | .015 | .38 | .146 | 3.71 |
| <b>5401FE</b>                       | 3 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 11.0<br>10.5<br>21.0<br>21.0 | 5.0<br>4.8<br>9.5<br>9.5   | .015 | .38 | .153 | 3.89 |
| <b>18 AWG</b>                       |   |       |                                |                              |                              |                            |      |     |      |      |
| <b>5320FE</b>                       | 2 | solid | U-1000<br>1000                 | U-305<br>305                 | 21.0<br>21.0                 | 9.5<br>9.5                 | .015 | .38 | .155 | 3.94 |
| <b>5300FE</b>                       | 2 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 11.5<br>11.0<br>22.0<br>22.0 | 5.2<br>5.0<br>10.0<br>10.0 | .015 | .38 | .165 | 4.19 |
| <b>5301FE</b>                       | 3 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 15.0<br>15.0<br>29.0<br>30.0 | 6.8<br>6.8<br>13.2<br>13.6 | .015 | .38 | .175 | 4.45 |
| <b>16 AWG</b>                       |   |       |                                |                              |                              |                            |      |     |      |      |
| <b>5200FE</b>                       | 2 | 19    | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 16.5<br>18.0<br>32.0<br>32.0 | 7.5<br>8.2<br>14.5<br>14.5 | .015 | .38 | .188 | 4.78 |
| <b>5201FE</b>                       | 3 | 19    | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 22.0<br>43.0<br>42.0         | 10.0<br>19.5<br>19.1       | .015 | .38 | .200 | 5.08 |

#### Shielded Multi-conductor (NEC CL3R)

|               |   |    |                       |                     |                      |                      |      |     |      |      |
|---------------|---|----|-----------------------|---------------------|----------------------|----------------------|------|-----|------|------|
| <b>14 AWG</b> |   |    |                       |                     |                      |                      |      |     |      |      |
| <b>5100FE</b> | 2 | 19 | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 28.0<br>48.0<br>53.0 | 12.7<br>21.8<br>24.1 | .015 | .38 | .238 | 6.05 |
| <b>5101FE</b> | 3 | 19 | 1000                  | 305                 | 66.0                 | 30.0                 | .015 | .38 | .253 | 6.43 |
| <b>12 AWG</b> |   |    |                       |                     |                      |                      |      |     |      |      |
| <b>5000FE</b> | 2 | 19 | 500<br>1000           | 152<br>305          | 36.5<br>67.0         | 16.6<br>30.5         | .015 | .38 | .272 | 6.91 |



## Audio Cable

Commercial Audio Systems  
Plenum-Rated



### Unshielded Multi-conductor CMP FT6 Rated or CL2P Rated

#### Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

#### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> |                |
| 22 to 16 AWG                | .009" (.229mm) |
| 14 to 10 AWG                | .011" (.279mm) |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC (22 to 16 AWG)          | CMP            |
| CEC (22 to 16 AWG)          | CMP FT6        |
| NEC (14 to 10 AWG)          | CL2P           |
| <b>NEC Articles</b>         |                |
| 22 to 16 AWG                | 800            |
| 14 to 10 AWG                | 725            |
| <b>Voltage Rating</b>       |                |
| 22 to 16 AWG                | 300V           |
| 14 to 10 AWG                | 150V           |
| <b>Temperature Rating</b>   | 75°C           |

#### Applications

- Intercom/PA Systems
- Sound/Audio Systems

#### Solid Conductor



#### Stranded Conductor



#### Color Code Chart

| (22 to 16 AWG) |       | (14 to 10 AWG) |       |
|----------------|-------|----------------|-------|
| Cond. No.      | Color | Cond. No.      | Color |
| 1              | Black | 1              | Black |
| 2              | Red   | 2              | White |
| 3              | White | 3              | Red   |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Unshielded Multi-conductor (NEC CMP and CEC CMP FT6)

| 22 AWG |   |       |                                |                              |                              |                            |      |     |      |      |
|--------|---|-------|--------------------------------|------------------------------|------------------------------|----------------------------|------|-----|------|------|
| 6520UE | 2 | solid | U-1000<br>1000                 | U-305<br>305                 | 10.0<br>9.0                  | 4.5<br>4.1                 | .015 | .38 | .118 | 3.00 |
| 6500UE | 2 | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 5.5<br>10.0<br>10.0          | 2.5<br>4.5<br>4.5          | .015 | .38 | .124 | 3.15 |
| 6521UE | 3 | solid | 1000                           | 305                          | 13.0                         | 5.9                        | .015 | .38 | .125 | 3.18 |
| 6501UE | 3 | 7     | U-1000<br>1000                 | U-305<br>305                 | 14.0<br>13.0                 | 6.4<br>5.9                 | .015 | .38 | .131 | 3.33 |
| 20 AWG |   |       |                                |                              |                              |                            |      |     |      |      |
| 6400UE | 2 | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 7.0<br>13.0<br>14.0          | 3.2<br>5.9<br>6.4          | .015 | .38 | .138 | 3.51 |
| 6401UE | 3 | 7     | U-1000<br>1000                 | U-305<br>305                 | 18.0<br>18.0                 | 8.2<br>8.2                 | .015 | .38 | .146 | 3.71 |
| 18 AWG |   |       |                                |                              |                              |                            |      |     |      |      |
| 6320UE | 2 | solid | U-1000                         | U-305                        | 17.0                         | 7.7                        | .015 | .38 | .147 | 3.73 |
| 6300UE | 2 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 9.5<br>9.0<br>18.0<br>18.0   | 4.3<br>4.1<br>8.2<br>8.2   | .015 | .38 | .157 | 3.99 |
| 6321UE | 3 | solid | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 12.0<br>24.0<br>24.0         | 5.5<br>10.9<br>10.9        | .015 | .38 | .156 | 3.96 |
| 6301UE | 3 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 13.0<br>12.5<br>25.0<br>25.0 | 5.9<br>5.7<br>11.4<br>11.4 | .015 | .38 | .168 | 4.27 |
| 16 AWG |   |       |                                |                              |                              |                            |      |     |      |      |
| 6200UE | 2 | 19    | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 13.0<br>26.0<br>26.0         | 5.9<br>11.8<br>11.8        | .015 | .38 | .180 | 4.57 |
| 6201UE | 3 | 19    | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 18.0<br>36.0<br>38.0         | 8.2<br>16.4<br>17.3        | .015 | .38 | .191 | 4.85 |

#### Unshielded Multi-conductor (NEC CL2P)

| 14 AWG                      |   |    |                       |                     |                      |                     |      |     |      |      |
|-----------------------------|---|----|-----------------------|---------------------|----------------------|---------------------|------|-----|------|------|
| 6100UE                      | 2 | 19 | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 20.0<br>39.0<br>40.0 | 9.1<br>17.7<br>18.2 | .015 | .38 | .222 | 5.64 |
| 6101UE                      | 3 | 19 | 1000                  | 305                 | 60.0                 | 27.3                | .015 | .38 | .236 | 5.99 |
| 12 AWG                      |   |    |                       |                     |                      |                     |      |     |      |      |
| 6000UE                      | 2 | 19 | 500<br>1000           | 152<br>305          | 32.0<br>58.0         | 14.5<br>26.4        | .015 | .38 | .256 | 6.50 |
| 6001UE                      | 3 | 19 | 1000                  | 305                 | 83.0                 | 37.7                | .015 | .38 | .273 | 6.93 |
| 10 AWG (For Audio Use Only) |   |    |                       |                     |                      |                     |      |     |      |      |
| 6T00UP                      | 2 | 65 | 1000                  | 305                 | 83.0                 | 37.8                | .015 | .38 | .308 | 7.82 |



## Audio Cable

Commercial Audio Systems  
Shielded, Plenum-Rated



**Shielded Multi-conductor**  
CMP FT6 Rated or CL2P Rated

### Product Description

Bare copper conductors, Flamarrest® insulation, conductors cabled, overall Beldfoil® tape shield (aluminum side out) and drain wire, Natural Flamarrest jacket with rip cord. Sequential footage marking every two feet.

**Color Code:** See chart below.

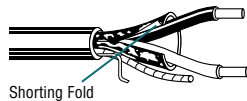
### Specifications

|                             |                |
|-----------------------------|----------------|
| <b>Conductor</b>            | Bare Copper    |
| <b>Insulation</b>           | Flamarrest     |
| <b>Insulation Thickness</b> |                |
| 22 to 16 AWG                | .009" (.229mm) |
| 14 to 12 AWG                | .011" (.279mm) |
| <b>Shield</b>               | Beldfoil       |
| <b>Jacket</b>               | Flamarrest     |
| <b>Approvals</b>            |                |
| NEC (22 to 16 AWG)          | CMP            |
| CEC (22 to 16 AWG)          | CMP FT6        |
| NEC (14 to 12 AWG)          | CL2P           |
| <b>NEC Articles</b>         |                |
| 22 to 16 AWG                | 800            |
| 14 to 12 AWG                | 725            |
| <b>Voltage Rating</b>       |                |
| 22 to 16 AWG                | 300V           |
| 14 to 12 AWG                | 150V           |
| <b>Temperature Rating</b>   | 75°C           |

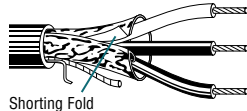
### Applications

- Intercom/PA Systems
- Sound/Audio Systems

### Solid Conductor



### Stranded Conductor



### Color Code Chart

(22 to 16 AWG)

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | Red   |
| 3         | White |

(14 to 12 AWG)

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | White |
| 3         | Red   |

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

### Shielded Multi-conductor (NEC CMP and CEC CMP FT6)

| 22 AWG |   |       |                                |                              |                           |                          |      |     |      |      |
|--------|---|-------|--------------------------------|------------------------------|---------------------------|--------------------------|------|-----|------|------|
| 6520FE | 2 | solid | U-1000<br>1000                 | U-305<br>305                 | 13.0<br>5.9               | 5.9<br>2.7               | .015 | .38 | .125 | 3.18 |
| 6500FE | 2 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 7.0<br>3.2<br>13.0<br>5.9 | 3.2<br>1.4<br>5.9<br>2.7 | .015 | .38 | .132 | 3.35 |
| 6521FE | 3 | solid | 1000                           | 305                          | 17.0                      | 7.7                      | .015 | .38 | .132 | 3.35 |
| 6501FE | 3 | 7     | 500<br>U-1000<br>1000          | 152<br>U-305<br>305          | 8.0<br>16.0<br>16.0       | 3.6<br>7.3<br>7.3        | .015 | .38 | .140 | 3.56 |

| 20 AWG |   |       |                |              |              |             |      |     |      |      |
|--------|---|-------|----------------|--------------|--------------|-------------|------|-----|------|------|
| 6420FE | 2 | solid | U-1000<br>1000 | U-305<br>305 | 16.0<br>7.3  | 7.3<br>3.3  | .015 | .38 | .137 | 3.48 |
| 6400FE | 2 | 7     | U-1000<br>1000 | U-305<br>305 | 17.0<br>7.7  | 7.7<br>3.4  | .015 | .38 | .145 | 3.68 |
| 6401FE | 3 | 7     | U-1000<br>1000 | U-305<br>305 | 22.0<br>10.0 | 10.0<br>4.5 | .015 | .38 | .153 | 3.89 |

| 18 AWG |   |       |                                |                              |                             |                           |      |     |      |      |
|--------|---|-------|--------------------------------|------------------------------|-----------------------------|---------------------------|------|-----|------|------|
| 6320FE | 2 | solid | 1000                           | 305                          | 22.0                        | 10.0                      | .015 | .38 | .153 | 3.89 |
| 6300FE | 2 | 7     | U-500<br>500<br>U-1000<br>1000 | U-152<br>152<br>U-305<br>305 | 12.0<br>5.5<br>23.0<br>10.5 | 5.5<br>2.5<br>10.5<br>4.7 | .015 | .38 | .162 | 4.11 |
| 6301FE | 3 | 7     | U-500<br>U-1000<br>1000        | U-152<br>U-305<br>305        | 15.5<br>30.0<br>30.0        | 7.0<br>13.6<br>13.6       | .015 | .38 | .175 | 4.45 |

| 16 AWG |   |    |                       |                     |                      |                      |      |     |      |      |
|--------|---|----|-----------------------|---------------------|----------------------|----------------------|------|-----|------|------|
| 6200FE | 2 | 19 | 500<br>1000           | 152<br>305          | 16.5<br>33.0         | 7.5<br>15.0          | .015 | .38 | .187 | 4.75 |
| 6201FE | 3 | 19 | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 22.5<br>44.0<br>45.0 | 10.2<br>20.0<br>20.5 | .015 | .38 | .198 | 5.03 |

### Shielded Multi-conductor (NEC CL2P)

| 14 AWG |   |    |                       |                     |                      |                      |      |     |      |      |
|--------|---|----|-----------------------|---------------------|----------------------|----------------------|------|-----|------|------|
| 6100FE | 2 | 19 | 500<br>U-1000<br>1000 | 152<br>U-305<br>305 | 26.0<br>49.0<br>54.0 | 11.8<br>22.3<br>24.5 | .015 | .38 | .229 | 5.82 |
| 6101FE | 3 | 19 | 1000                  | 305                 | 70.0                 | 31.8                 | .015 | .38 | .243 | 6.17 |
| 12 AWG |   |    |                       |                     |                      |                      |      |     |      |      |
| 6000FE | 2 | 19 | 500<br>1000           | 152<br>305          | 36.0<br>68.0         | 16.4<br>30.9         | .015 | .38 | .263 | 6.68 |



## Audio Cable

Pro Audio and Intercom Systems  
Shielded, Plenum-Rated



### Shielded Multi-conductor

CMP FT6 Rated

#### Product Description

Bare copper conductors, Halar® insulation, cabled with a Beldfoil® shield tape and drain wire. Natural Flamarrest® jacket.

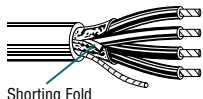
**Color Code:** See chart below.

#### Specifications

|                             |                 |
|-----------------------------|-----------------|
| <b>Conductor</b>            | Bare Copper     |
| <b>Insulation</b>           | Halar           |
| <b>Insulation Thickness</b> |                 |
| 22 AWG                      | .0055" (.140mm) |
| 20 AWG                      | .0060" (.152mm) |
| 18 AWG                      | .0065" (.165mm) |
| <b>Shield</b>               | Beldfoil        |
| <b>Jacket</b>               | Flamarrest      |
| <b>Approvals</b>            |                 |
| NEC                         | CMP             |
| CEC                         | CMP FT6         |
| <b>NEC Articles</b>         | 800             |
| <b>Voltage Rating</b>       | 300V            |
| <b>Temperature Rating</b>   | 75°C            |

#### Applications

- Pro Audio
- Intercom/PA Systems
- Security Systems



#### Color Code Chart

| Cond. No. | Color |
|-----------|-------|
| 1         | Black |
| 2         | Red   |
| 3         | White |
| 4         | Green |

Halar is a trademark of the Ausimont Corporation.

| Part No. | No. of Cond. | Stranding | Standard Lengths |   | Standard Unit Weight |    | Outer Jacket Thickness |    | Nominal OD |    |
|----------|--------------|-----------|------------------|---|----------------------|----|------------------------|----|------------|----|
|          |              |           | Ft.              | m | Lbs.                 | kg | Inch                   | mm | Inch       | mm |

#### Shielded Multi-conductor (NEC CMP and CEC CMP FT6)

|               |   |   |                |              |              |              |      |     |      |      |
|---------------|---|---|----------------|--------------|--------------|--------------|------|-----|------|------|
| <b>22 AWG</b> |   |   |                |              |              |              |      |     |      |      |
| <b>6500FC</b> | 2 | 7 | U-1000<br>1000 | U-305<br>305 | 11.0<br>5.0  | 5.0<br>11.0  | .015 | .38 | .116 | 2.95 |
| <b>6502FC</b> | 4 | 7 | U-1000         | U-305        | 17.0         | 7.7          | .015 | .38 | .133 | 3.38 |
| <b>20 AWG</b> |   |   |                |              |              |              |      |     |      |      |
| <b>6400FC</b> | 2 | 7 | U-1000         | U-305        | 15.0         | 6.8          | .015 | .38 | .130 | 3.30 |
| <b>18 AWG</b> |   |   |                |              |              |              |      |     |      |      |
| <b>6300FC</b> | 2 | 7 | U-1000<br>1000 | U-305<br>305 | 21.0<br>9.5  | 9.5<br>21.0  | .015 | .38 | .152 | 3.86 |
| <b>6302FC</b> | 4 | 7 | U-1000<br>1000 | U-305<br>305 | 34.0<br>15.5 | 15.5<br>35.0 | .015 | .38 | .176 | 4.47 |



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1-800-527-0010





# 14 Residential Cables

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## Introduction

### Innovative Home Cabling Solutions From the World's Most Trusted Name in Cable

Because we understand that each home installation has its own set of needs and expectations, Belden offers its structured cabling line of individual, dual component and composite cables — in all, over 50 different cables for your home automation, networking, security and entertainment system installations.

#### Belden Quality and Reliability

Belden manufactures all of the cables in its residential cable line so you can be assured that each cable product is the result of the most rigorous quality process in the industry.

Belden's commitment to quality and reliability is unequalled in its marketplace. And since we have such a wide range of products to meet your varied needs, Belden can easily provide you with one-stop home shopping.

#### High-Performance, Easy-to-Install Cables

Individual or single application cables are available for any data, video, audio or security need, including:

- Category 5e, Category 6 UTP and fiber data cables for multimedia, voice, video and data use
- Series 6 and Series 59 video coax cables for HDTV, DBS, CATV, SVHS, CCTV and cable modem applications
- Speaker cables for your audio distribution needs
- Paired, unshielded cables for security and alarm applications

Belden also offers over 20 different composite cables. Composite cables simplify a multiple use installation by combining Belden data cables, coaxial cables, paired and multi-conductor cables, and fiber optic cables in a single-pull product.

#### Time-tested and Preferred in Other Industries

Many of the Belden® Residential Cables in this catalog have been long-standing leaders in other industries such as:

- **Computer networks** — where Belden offers the most innovative cables and the leading data cable technology worldwide.
- **Broadcast** — where network studios prefer Belden over any other cable for picture-perfect quality and professional audio technicians demand Belden for crystal-clear audio quality.
- **Broadband CATV** — where Belden Duobond Plus® (Tri-shield) Cables have consistently outperformed the more elaborate quad-shielded cables.
- **Alarm/Security** — where Belden has been a favorite among installers for many years.

Now, these industry-leading and time-tested cables are available, along with many new innovations, for wiring the home of the 21st Century...only from Belden.

#### Better Designs, Better Performance

Some unique high performance technologies are used in the manufacture of these various cables, including:

#### Belden's Patented Data Cable Technology: Bonded-Pairs

To ensure top performance, Belden uses a unique manufacturing process that affixes the individual insulated conductors of the pairs along their longitudinal axis. This cable construction feature prevents gaps from occurring between the conductor pairs: a critical factor in the electrical performance of the cable.

#### Only Belden Bonded-Pair Data Cables Offer the Assurance of Installable Performance™

Due to the patented Bonded-Pair design, these cables are able to withstand the rigors of a typical installation without any degradation in performance. This means that the Cat 5e cable that you purchase from Belden to meet Cat 5e specifications will not only meet these specifications before installation, but more importantly, it will meet them after installation.

#### Coax Cables with Belden's Exclusive Duobond Plus® Shielding

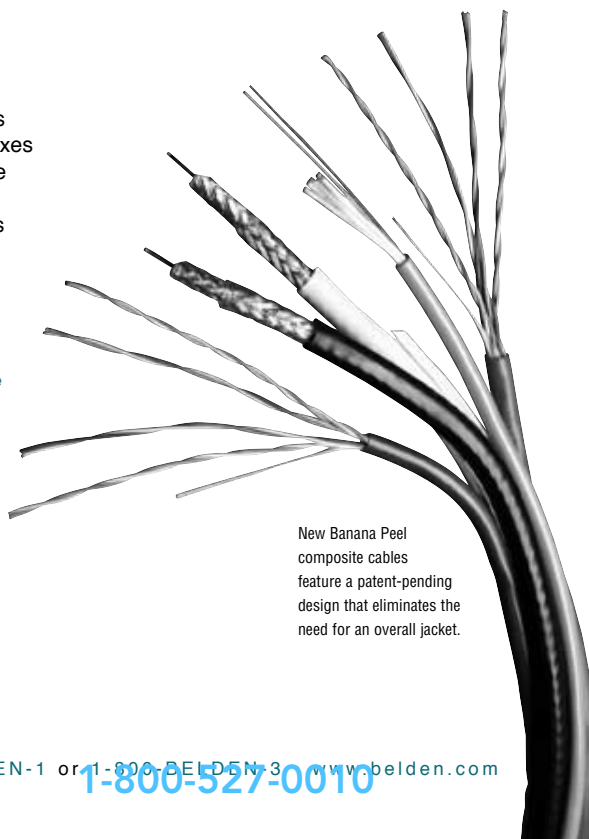
Duobond Plus consists of a Duofoil® II (foil tape) surrounded by an 80 percent braid and an outer layer of foil with a unique shorting fold. This unique construction provides optimum shielding effectiveness.

#### Composite Cables — Without a Jacket!

Belden Banana Peel™ composite cables feature a patent-pending design that eliminates the need for an overall jacket, making these cables easy to handle, easy to identify, easy to pull and easy to terminate. Just peel the cables off the center spline, and you're in business.

#### Everything You Need For The Intelligent Home

These structured cabling products for the Intelligent Home are all brought to you by Belden — the most innovative and trusted manufacturer in the cable industry. Belden offers the most comprehensive, time-tested and proven products for cabling the home.



New Banana Peel composite cables feature a patent-pending design that eliminates the need for an overall jacket.



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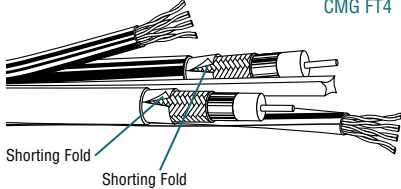
# Composite Data, Audio, Video, Security and Control Cable

Banana Peel™ Jacketless Cables

Category 5e Bonded-Pairs

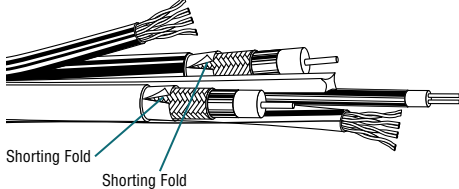
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Overall Nom. OD |    | Component Descriptions | Shielding Materials & Nom. DCR | Insulation Material & Color Code | Component Jacket Material & Colors | Component Nom. OD |    |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------|----|------------------------|--------------------------------|----------------------------------|------------------------------------|-------------------|----|
|             |          |                              | Ft.              | m | Lbs.                 | kg | Inch            | mm |                        |                                |                                  |                                    | Inch              | mm |

**Composite • (2) Cat 5e 4-Bonded-Pair UTP 24 AWG • (2) Series 6 Coax w/ Duobond Plus® (Bonded Tri-Shield)**

| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • No Overall Jacket |                            |                 |      |       |       |      |      |       |                                                                           |                                                                                                       |                                |                             |      |      |
|----------------------------------------------------------------------------------------------------------|----------------------------|-----------------|------|-------|-------|------|------|-------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------|------|------|
|  <p>Shorting Fold</p>   | <b>7876S</b><br><b>new</b> | NEC:<br>CMR     | 500  | 152.4 | 66.0  | 29.9 | .550 | 13.97 | (2) 4-Pair UTP Data Cables: Bonded-Pairs 24 AWG (solid) Bare Copper Cond. | None                                                                                                  | Polyolefin (see chart below)   | F-R PVC (1) Blue (1) Green  | .200 | 5.08 |
|                                                                                                          |                            | CEC:<br>CMG FT4 | 1000 | 304.8 | 128.0 | 58.1 |      |       |                                                                           |                                                                                                       |                                |                             |      |      |
|                                                                                                          |                            |                 |      |       |       |      |      |       | (2) Coax: Series 6 18 AWG (solid) Bare Copper Cond.                       | Duobond Plus (Bonded Tri-Shield): Duobond® + 80% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M' 15.1Ω/km | Gas-injected Foam Polyethylene | F-R PVC (1) Black (1) White | .275 | 6.99 |

Coax sweep tested to 2.25 GHz and jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

**Composite • (2) Cat 5e 4-Bonded-Pair UTP 24 AWG • (2) Series 6 Coax w/ Duobond Plus • (1) 2-Fiber LANLite®**

| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • No Overall Jacket |                            |                    |      |       |       |      |      |       |                                                                                          |                                                                                                      |                                |                             |      |      |
|----------------------------------------------------------------------------------------------------------|----------------------------|--------------------|------|-------|-------|------|------|-------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------|------|------|
|  <p>Shorting Fold</p> | <b>7878S</b><br><b>new</b> | NEC:<br>CMR OF     | 500  | 152.4 | 71.0  | 32.2 | .595 | 15.11 | (2) 4-Pair UTP Data Cables: Bonded-Pairs 24 AWG (solid) Bare Copper Cond.                | None                                                                                                 | Polyolefin (see chart below)   | F-R PVC (1) Blue (1) Green  | .200 | 5.08 |
|                                                                                                          |                            | CEC:<br>CMG OF FT4 | 1000 | 304.8 | 142.0 | 64.4 |      |       |                                                                                          |                                                                                                      |                                |                             |      |      |
|                                                                                                          |                            |                    |      |       |       |      |      |       | (2) Coax: Series 6 18 AWG (solid) Bare Copper Cond.                                      | Duobond Plus (Bonded Tri-Shield): Duobond + 80% AL Braid + AL Foil w/ Shorting Fold 4.6Ω/M' 15.1Ω/km | Gas-injected Foam Polyethylene | F-R PVC (1) Black (1) White | .275 | 6.99 |
|                                                                                                          |                            |                    |      |       |       |      |      |       | (1) 2-Fiber LANLite: Gigabit Ethernet 62.5μ/125μ/900μ (core/clad/coating) Tight Buffered | —                                                                                                    | PVC (1) Blue (1) Orange        | F-R PVC (1) Orange          | .175 | 4.45 |

Coax sweep tested to 2.25 GHz and jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

AL = Aluminum • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.  
Request quotations of cables not listed.

## Color Codes: Cat 5e UTP

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



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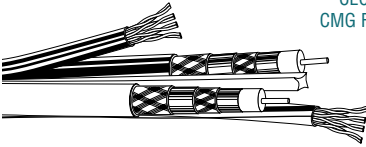
# Composite Data, Audio, Video, Security and Control Cable

Banana Peel™ Jacketless Cables

Category 5e

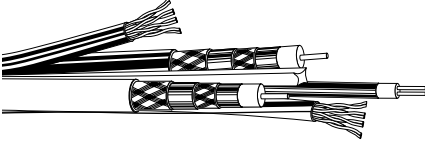
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Overall Nom. OD |    | Component Descriptions | Shielding Materials & Nom. DCR | Insulation Material & Color Code | Component Jacket Material & Colors | Component Nom. OD |    |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------|----|------------------------|--------------------------------|----------------------------------|------------------------------------|-------------------|----|
|             |          |                              | Ft.              | m | Lbs.                 | kg | Inch            | mm |                        |                                |                                  |                                    | Inch              | mm |

**Composite • (2) Cat 5e 4-Pair UTP 24 AWG • (2) Series 6 Coax w/ Duobond® IV\* Quad Shield**

| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • No Overall Jacket |                                    |                                |             |                |               |              |      |       |                                                                             |                                                                             |                                      |                                   |      |      |
|----------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|-------------|----------------|---------------|--------------|------|-------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|                          | <b>7913S</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500<br>1000 | 152.4<br>304.8 | 67.0<br>134.0 | 30.4<br>60.8 | .600 | 15.24 | (2) 4-Pair UTP<br>Data Cables:<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond. | None                                                                        | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue<br>(1) Green  | .200 | 5.08 |
|                                                                                                          |                                    |                                |             |                |               |              |      |       | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.          | Duobond IV<br>Quad Shield:<br>60% & 40%<br>AL Braids<br>4.8Ω/M'<br>15.7Ω/km | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .298 | 7.57 |
|                                                                                                          |                                    |                                |             |                |               |              |      |       |                                                                             |                                                                             |                                      |                                   |      |      |

Coax sweep tested to 2.25 GHz and jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

**Composite • (2) Cat 5e 4-Pair UTP 24 AWG • (2) Series 6 Coax w/ Duobond IV\* Quad Shield • (1) 2-Fiber LANLite®**

| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • No Overall Jacket |                                    |                                      |             |                |               |              |      |       |                                                                                                         |                                                                             |                                      |                                   |      |      |
|----------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------|-------------|----------------|---------------|--------------|------|-------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|                         | <b>7914S</b><br><small>new</small> | NEC:<br>CMR OF<br>CEC:<br>CMG OF FT4 | 500<br>1000 | 152.4<br>304.8 | 76.0<br>151.0 | 34.2<br>68.5 | .620 | 15.75 | (2) 4-Pair UTP<br>Data Cables:<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond.                             | None                                                                        | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue<br>(1) Green  | .200 | 5.08 |
|                                                                                                          |                                    |                                      |             |                |               |              |      |       | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.                                      | Duobond IV<br>Quad Shield:<br>60% & 40%<br>AL Braids<br>4.8Ω/M'<br>15.7Ω/km | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .298 | 7.57 |
|                                                                                                          |                                    |                                      |             |                |               |              |      |       | (1) 2-Fiber<br>LANLite:<br>Gigabit Ethernet<br>62.5µ/125µ/900µ<br>(core/clad/coating)<br>Tight Buffered | —                                                                           | PVC<br>(1) Blue<br>(1) Orange        | F-R PVC<br>(1) Orange             | .175 | 4.45 |

Coax sweep tested to 2.25 GHz and jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

AL = Aluminum • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.  
Request quotations of cables not listed.

\* Duobond IV = Duobond II + 60% aluminum braid + Duofoil® + 40% aluminum braid.

## Color Codes: Cat 5e UTP

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



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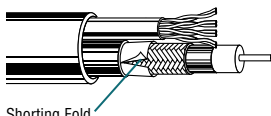
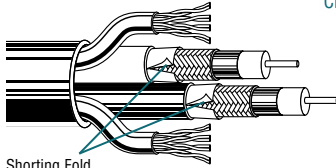
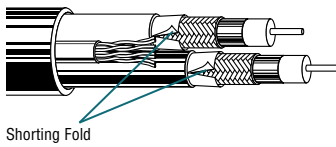
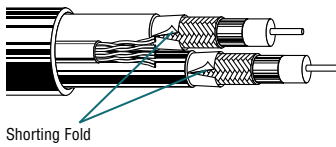
# Composite Data, Audio, Video, Security and Control Cable

Jacketed Cables

Category 5e Bonded-Pairs

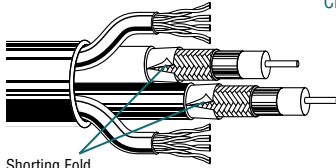
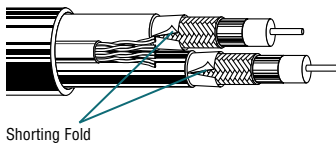
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Overall Nom. OD |    | Component Descriptions | Shielding Materials & Nom. DCR | Insulation Material & Color Code | Component Jacket Material & Colors | Component Nom. OD |    |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------|----|------------------------|--------------------------------|----------------------------------|------------------------------------|-------------------|----|
|             |          |                              | Ft.              | m | Lbs.                 | kg | Inch            | mm |                        |                                |                                  |                                    | Inch              | mm |

**Composite • (1) Cat 5e 4-Bonded-Pair UTP 24 AWG • (1) Series 6 Coax w/ Duobond Plus® Bonded Tri-Shield**

| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • Overall Green F-R PVC Jacket |                                    |                                |      |       |       |      |           |            |                                                                                             |                                                                                                     |                                      |                                   |      |      |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|------|-------|-------|------|-----------|------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|                                    | <b>7910A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 46.0  | 20.9 | .335      | 8.51       | (1) 4-Pair UTP<br>Data Cable:<br>Bonded-Pairs<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond.  | None                                                                                                | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue               | .200 | 5.08 |
|                                                                                                                     |                                    |                                | 1000 | 304.8 | 86.0  | 39.1 | x<br>.535 | x<br>13.59 |                                                                                             |                                                                                                     |                                      |                                   |      |      |
|                                   | <b>7876A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 77.0  | 35.0 | .610      | 15.49      | (2) 4-Pair UTP<br>Data Cables:<br>Bonded-Pairs<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond. | None                                                                                                | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue<br>(1) Green  | .200 | 5.08 |
|                                                                                                                     |                                    |                                | 1000 | 304.8 | 147.0 | 66.8 |           |            |                                                                                             |                                                                                                     |                                      |                                   |      |      |
|                                  | <b>7877A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 67.0  | 30.5 | .610      | 15.49      | (1) 4-Pair UTP<br>Data Cable:<br>Bonded-Pairs<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond.  | None                                                                                                | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue               | .200 | 5.08 |
|                                                                                                                     |                                    |                                | 1000 | 304.8 | 128.0 | 58.2 |           |            |                                                                                             |                                                                                                     |                                      |                                   |      |      |
|                                  | <b>7877A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 67.0  | 30.5 | .610      | 15.49      | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.                          | Duobond Plus<br>Bonded<br>Tri-Shield:<br>Duobond +<br>80% AL Braid<br>+ AL Foil w/<br>Shorting Fold | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .275 | 6.99 |
|                                                                                                                     |                                    |                                |      |       |       |      |           |            |                                                                                             |                                                                                                     |                                      |                                   |      |      |

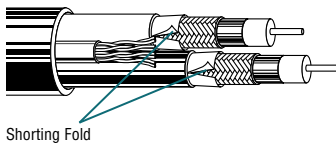
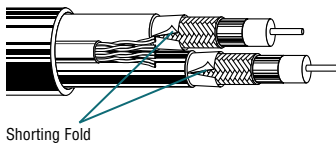
Coax sweep tested to 2.25 GHz and overall jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

**Composite • (2) Cat 5e 4-Bonded-Pair UTP • (2) Series 6 Coax w/ Duobond Plus Bonded Tri-Shield**

| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • Overall Green F-R PVC Jacket |                                    |                                |      |       |       |      |      |       |                                                                                             |                                                                                                     |                                      |                                   |      |      |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|------|-------|-------|------|------|-------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|                                   | <b>7876A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 77.0  | 35.0 | .610 | 15.49 | (2) 4-Pair UTP<br>Data Cables:<br>Bonded-Pairs<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond. | None                                                                                                | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue<br>(1) Green  | .200 | 5.08 |
|                                                                                                                     |                                    |                                | 1000 | 304.8 | 147.0 | 66.8 |      |       |                                                                                             |                                                                                                     |                                      |                                   |      |      |
|                                  | <b>7877A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 67.0  | 30.5 | .610 | 15.49 | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.                          | Duobond Plus<br>Bonded<br>Tri-Shield:<br>Duobond +<br>80% AL Braid<br>+ AL Foil w/<br>Shorting Fold | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .275 | 6.99 |
|                                                                                                                     |                                    |                                |      |       |       |      |      |       |                                                                                             |                                                                                                     |                                      |                                   |      |      |

Coax sweep tested to 2.25 GHz and overall jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

**Composite • (1) Cat 5e 4-Bonded-Pair UTP • (2) Series 6 Coax w/ Duobond Plus Bonded Tri-Shield**

| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • Overall Green F-R PVC Jacket |                                    |                                |      |       |       |      |      |       |                                                                                            |                                                                                                     |                                      |                                   |      |      |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|------|-------|-------|------|------|-------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|                                  | <b>7877A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 67.0  | 30.5 | .610 | 15.49 | (1) 4-Pair UTP<br>Data Cable:<br>Bonded-Pairs<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond. | None                                                                                                | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue               | .200 | 5.08 |
|                                                                                                                     |                                    |                                | 1000 | 304.8 | 128.0 | 58.2 |      |       |                                                                                            |                                                                                                     |                                      |                                   |      |      |
|                                  | <b>7877A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 67.0  | 30.5 | .610 | 15.49 | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.                         | Duobond Plus<br>Bonded<br>Tri-Shield:<br>Duobond +<br>80% AL Braid<br>+ AL Foil w/<br>Shorting Fold | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .275 | 6.99 |
|                                                                                                                     |                                    |                                |      |       |       |      |      |       |                                                                                            |                                                                                                     |                                      |                                   |      |      |

Coax sweep tested to 2.25 GHz and overall jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

AL = Aluminum • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.  
Request quotations of cables not listed.

## Color Codes: Cat 5e UTP

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



# Composite Data, Audio, Video, Security and Control Cable

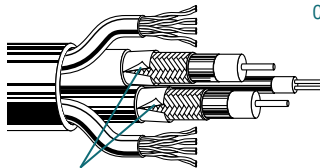
Jacketed Cables

Category 5e Bonded-Pairs and Category 5

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Overall Nom. OD |    | Component Descriptions | Shielding Materials & Nom. DCR | Insulation Material & Color Code | Component Jacket Material & Colors | Component Nom. OD |    |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------|----|------------------------|--------------------------------|----------------------------------|------------------------------------|-------------------|----|
|             |          |                              | Ft.              | m | Lbs.                 | kg | Inch            | mm |                        |                                |                                  |                                    | Inch              | mm |

## Composite • (2) Cat 5e 4-Bonded-Pair UTP 24 AWG • (2) Series 6 Coax w/ Duobond Plus® Tri-Shield • (1) 2-Fiber LANLite®

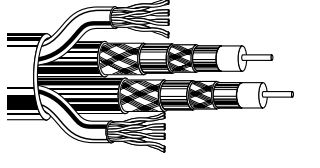
### Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • Overall Green F-R PVC Jacket

|                                                                                                       |                                    |                                      |             |                |               |              |      |       |                                                                                                         |                                                                                                                             |                                      |                                   |      |      |
|-------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------|-------------|----------------|---------------|--------------|------|-------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|  <p>Shorting Fold</p> | <b>7878A</b><br><small>new</small> | NEC:<br>CMR OF<br>CEC:<br>CMG OF FT4 | 500<br>1000 | 152.4<br>304.8 | 84.0<br>161.0 | 34.2<br>73.2 | .635 | 16.13 | (2) 4-Pair UTP<br>Data Cables:<br>Bonded-Pairs<br>24 AWG<br>(solid)<br>BC Cond.                         | None                                                                                                                        | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue<br>(1) Green  | .200 | 5.08 |
|                                                                                                       |                                    |                                      |             |                |               |              |      |       | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.                                      | Duobond Plus<br>Bonded<br>Tri-Shield:<br>Duobond® +<br>80% AL Braid<br>+ AL Foil w/<br>Shorting Fold<br>4.6Ω/M'<br>15.1Ω/km | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .275 | 6.99 |
|                                                                                                       |                                    |                                      |             |                |               |              |      |       | (1) 2-Fiber<br>LANLite:<br>Gigabit Ethernet<br>62.5μ/125μ/900μ<br>(core/clad/coating)<br>Tight Buffered | —                                                                                                                           | PVC<br>(1) Blue<br>(1) Orange        | F-R PVC<br>(1) Orange             | .175 | 4.45 |

Coax sweep tested to 2.25 GHz and overall jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5e

## Composite • (2) Cat 5 4-Pair UTP 24 AWG • (2) Series 6 Coax w/ Duobond IV® Quad Shield

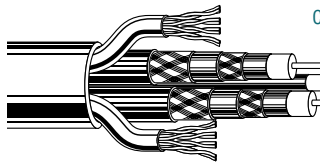
### Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • Overall Light Green F-R PVC Jacket

|                                                                                    |                                    |                                |             |                |               |              |      |       |                                                                             |                                                                             |                                      |                                   |      |      |
|------------------------------------------------------------------------------------|------------------------------------|--------------------------------|-------------|----------------|---------------|--------------|------|-------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|  | <b>7913A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500<br>1000 | 152.4<br>304.8 | 81.5<br>157.0 | 37.0<br>71.4 | .660 | 16.76 | (2) 4-Pair UTP<br>Data Cables:<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond. | None                                                                        | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue<br>(1) Green  | .200 | 5.08 |
|                                                                                    |                                    |                                |             |                |               |              |      |       | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.          | Duobond IV<br>Quad Shield:<br>60% & 40%<br>AL Braids<br>4.8Ω/M'<br>15.7Ω/km | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .298 | 7.57 |
|                                                                                    |                                    |                                |             |                |               |              |      |       |                                                                             |                                                                             |                                      |                                   |      |      |

Coax sweep tested to 2.25 GHz and overall jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5

## Composite • (2) Cat 5 4-Pair UTP 24 AWG • (2) Series 6 Coax w/ Duobond IV® Quad Shield • (1) 2-Fiber LANLite

### Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • F-R PVC Jackets • Overall Light Green F-R PVC Jacket

|                                                                                    |                                    |                                      |             |                |               |              |      |       |                                                                                                         |                                                                             |                                      |                                   |      |      |
|------------------------------------------------------------------------------------|------------------------------------|--------------------------------------|-------------|----------------|---------------|--------------|------|-------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|-----------------------------------|------|------|
|  | <b>7914A</b><br><small>new</small> | NEC:<br>CMR OF<br>CEC:<br>CMG OF FT4 | 500<br>1000 | 152.4<br>304.8 | 87.5<br>169.0 | 39.8<br>76.8 | .660 | 16.76 | (2) 4-Pair UTP<br>Data Cables:<br>24 AWG<br>(solid)<br>BC Cond.                                         | None                                                                        | Polyolefin<br>(see chart<br>below)   | F-R PVC<br>(1) Blue<br>(1) Green  | .200 | 5.08 |
|                                                                                    |                                    |                                      |             |                |               |              |      |       | (2) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.                                      | Duobond IV<br>Quad Shield:<br>60% & 40%<br>AL Braids<br>4.8Ω/M'<br>15.7Ω/km | Gas-injected<br>Foam<br>Polyethylene | F-R PVC<br>(1) Black<br>(1) White | .298 | 7.57 |
|                                                                                    |                                    |                                      |             |                |               |              |      |       | (1) 2-Fiber<br>LANLite:<br>Gigabit Ethernet<br>62.5μ/125μ/900μ<br>(core/clad/coating)<br>Tight Buffered | —                                                                           | PVC<br>(1) Blue<br>(1) Orange        | F-R PVC<br>(1) Orange             | .175 | 4.45 |

Coax sweep tested to 2.25 GHz and overall jacket sequentially marked.  
Third party verified to TIA/EIA-568-B.2, Category 5

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: 1-800-BELDEN-1.  
Request quotations of cables not listed.

\* Duobond IV = Duobond II + 60% aluminum braid + Duofoil® + 40% aluminum braid.

#### Color Code: Cat 5e UTP

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



By: **INTERSTATEWIRE**  
INCORPORATED

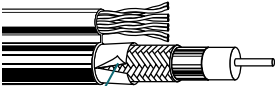
Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

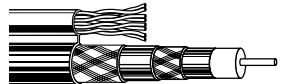
# Composite Data, Audio, Video, Security and Control Cable

Siamese Cables

Category 5e Bonded-Pairs and Category 5

| Description                                                                                                           | Part No.                  | UL NEC/<br>C(UL) CEC<br>Type   | Standard Lengths |                | Standard Unit Weight |              | Overall Nom. OD   |                    | Component Descriptions                                                                      | Shielding Materials & Nom. DCR                                                                                              | Insulation Material & Color Code     | Component Jacket Material & Colors | Component Nom. OD |    |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|------------------|----------------|----------------------|--------------|-------------------|--------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|-------------------|----|
|                                                                                                                       |                           |                                | Ft.              | m              | Lbs.                 | kg           | Inch              | mm                 |                                                                                             |                                                                                                                             |                                      |                                    | Inch              | mm |
| Composite • (1) Cat 5e 4-Bonded-Pair UTP 24 AWG • (1) Series 6 Coax w/ Duobond Plus® Bonded Tri-Shield                |                           |                                |                  |                |                      |              |                   |                    |                                                                                             |                                                                                                                             |                                      |                                    |                   |    |
| Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • Overall Green F-R PVC Jacket                     |                           |                                |                  |                |                      |              |                   |                    |                                                                                             |                                                                                                                             |                                      |                                    |                   |    |
| Siamese Construction                                                                                                  | 7911A<br><span>new</span> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500<br>1000      | 152.4<br>304.8 | 35.0<br>60.0         | 15.9<br>27.2 | .275<br>x<br>.529 | 6.99<br>x<br>13.44 | (1) 4-Pair UTP<br>Data Cables:<br>Bonded-Pairs<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond. | None                                                                                                                        | Polyolefin<br>(see chart<br>below)   | —                                  | —                 | —  |
|                                      |                           |                                |                  |                |                      |              |                   |                    | (1) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.                          | Duobond Plus<br>Bonded<br>Tri-Shield:<br>Duobond® +<br>80% AL Braid<br>+ AL Foil w/<br>Shorting Fold<br>4.6Ω/M'<br>15.1Ω/km | Gas-injected<br>Foam<br>Polyethylene | —                                  | —                 | —  |
| Shorting Fold                                                                                                         |                           |                                |                  |                |                      |              |                   |                    |                                                                                             |                                                                                                                             |                                      |                                    |                   |    |
| Coax sweep tested to 2.25 GHz and jacket sequentially marked.<br>Third party verified to TIA/EIA-568-B.2, Category 5e |                           |                                |                  |                |                      |              |                   |                    |                                                                                             |                                                                                                                             |                                      |                                    |                   |    |

## Composite • (1) Cat 5 4-Pair UTP 24 AWG • (1) Series 6 Coax w/ Duobond IV\* Quad Shield

|                                                                                                                      |                                    |                                |             |                |              |              |                   |                    |                                                                             |                                                                             |                                      |   |   |   |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|-------------|----------------|--------------|--------------|-------------------|--------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|---|---|---|
| <b>Polyolefin Insulation (Pairs) • Gas-injected FPE Insulation (Coax) • Overall Light Green F-R PVC Jacket</b>       |                                    |                                |             |                |              |              |                   |                    |                                                                             |                                                                             |                                      |   |   |   |
| Siamese Construction                                                                                                 | <b>7912A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500<br>1000 | 152.4<br>304.8 | 35.5<br>61.0 | 16.1<br>27.7 | .297<br>x<br>.548 | 7.54<br>x<br>13.92 | (1) 4-Pair UTP<br>Data Cables:<br>24 AWG<br>(solid)<br>Bare Copper<br>Cond. | None                                                                        | Polyolefin<br>(see chart<br>below)   | — | — | — |
|                                    |                                    |                                |             |                |              |              |                   |                    | (1) Coax:<br>Series 6<br>18 AWG<br>(solid)<br>Bare Copper<br>Cond.          | Duobond IV<br>Quad Shield:<br>60% & 40%<br>AL Braids<br>4.8Ω/M'<br>15.7Ω/km | Gas-injected<br>Foam<br>Polyethylene | — | — | — |
| Coax sweep tested to 2.25 GHz and jacket sequentially marked.<br>Third party verified to TIA/EIA-568-B.2, Category 5 |                                    |                                |             |                |              |              |                   |                    |                                                                             |                                                                             |                                      |   |   |   |

AL = Aluminum • DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: **1-800-BELDEN-1**.

Request quotations of cables not listed.

\* Duobond IV = Duobond II + 60% aluminum braid + Duofoil® + 40% aluminum braid.

### Color Code: Cat 5e UTP

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |





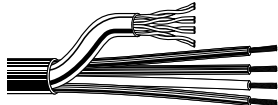
# Composite Data, Audio, Video, Security and Control Cable

## Keypad Cables

### Category 5e Bonded-Pairs and Category 5

| Description | Part No. | UL NEC/ C(UL) CEC Type | Standard Lengths |   | Standard Unit Weight |    | Overall Nom. OD |    | Component Descriptions | Shielding Materials & Nom. DCR | Insulation Material & Color Code | Component Jacket Material & Colors | Component Nom. OD |    |
|-------------|----------|------------------------|------------------|---|----------------------|----|-----------------|----|------------------------|--------------------------------|----------------------------------|------------------------------------|-------------------|----|
|             |          |                        | Ft.              | m | Lbs.                 | kg | Inch            | mm |                        |                                |                                  |                                    | Inch              | mm |

#### Composite • (1) Cat 5e 4-Bonded-Pair UTP 24 AWG • (4) 16 AWG Bare Copper Conductors Stranded (19x .012)

| Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • Overall Green F-R PVC Jacket |                                    |                                |      |       |      |      |      |       |                                                                          |      |                              |                  |      |      |
|--------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|------|-------|------|------|------|-------|--------------------------------------------------------------------------|------|------------------------------|------------------|------|------|
|            | <b>7949A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 54.5 | 24.7 | .438 | 11.13 | (1) 4-Pair UTP Data Cable: Bonded-Pairs 24 AWG (solid) Bare Copper Cond. | None | Polyolefin (see chart below) | F-R PVC (1) Blue | .200 | 5.08 |
|                                                                                            |                                    |                                | 1000 | 304.8 | 99.0 | 44.9 |      |       | (4) Conductors: 16 AWG (19x.012) Bare Copper Cond.                       |      |                              |                  | .079 | 2.01 |

Jacket sequentially marked.

Third party verified to TIA/EIA-568-B.2, Category 5e

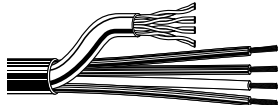
#### Composite • (1) Cat 5 4-Pair UTP 24 AWG • (4) 16 AWG Bare Copper Conductors Stranded (19x .012)

| Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • Overall Light Green F-R PVC Jacket |                                    |                                |      |       |      |      |      |       |                                                             |      |                              |                  |      |      |
|--------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|------|-------|------|------|------|-------|-------------------------------------------------------------|------|------------------------------|------------------|------|------|
|                  | <b>7950A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 55.0 | 24.9 | .434 | 11.02 | (1) 4-Pair UTP Data Cable: 24 AWG (solid) Bare Copper Cond. | None | Polyolefin (see chart below) | F-R PVC (1) Blue | .200 | 5.08 |
|                                                                                                  |                                    |                                | 1000 | 304.8 | 99.0 | 44.9 |      |       | (4) Conductors: 16 AWG (19x.012) Bare Copper Cond.          |      |                              |                  | .079 | 2.01 |

Jacket sequentially marked.

Third party verified to TIA/EIA-568-B.2, Category 5

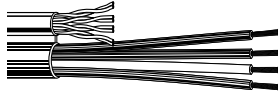
#### Composite • (1) Cat 5 4-Pair UTP 24 AWG • (4) 18 AWG Bare Copper Conductors Stranded (19x .010)

| Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • Overall Light Green F-R PVC Jacket |                                    |                                |      |       |      |      |      |       |                                                             |      |                              |                  |      |      |
|--------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|------|-------|------|------|------|-------|-------------------------------------------------------------|------|------------------------------|------------------|------|------|
|                | <b>7951A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500  | 152.4 | 49.0 | 22.2 | .412 | 10.47 | (1) 4-Pair UTP Data Cable: 24 AWG (solid) Bare Copper Cond. | None | Polyolefin (see chart below) | F-R PVC (1) Blue | .200 | 5.08 |
|                                                                                                  |                                    |                                | 1000 | 304.8 | 88.0 | 39.9 |      |       | (4) Conductors: 18 AWG (19x.010) Bare Copper Cond.          |      |                              |                  | .066 | 1.68 |

Jacket sequentially marked.

Third party verified to TIA/EIA-568-B.2, Category 5

#### Composite • (1) Cat 5 4-Pair UTP 24 AWG • (4) 14 AWG Bare Copper Conductors Stranded (19x .015)

| Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • Overall Light Green F-R PVC Jacket |                                    |                                |     |       |      |      |      |      |                                                             |      |                              |                  |      |      |
|--------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|-----|-------|------|------|------|------|-------------------------------------------------------------|------|------------------------------|------------------|------|------|
|                | <b>7952A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 500 | 152.4 | 61.0 | 27.7 | .301 | 7.65 | (1) 4-Pair UTP Data Cable: 24 AWG (solid) Bare Copper Cond. | None | Polyolefin (see chart below) | F-R PVC (1) Blue | .200 | 5.08 |
|                                                                                                  |                                    |                                |     |       |      |      | x    | x    | (4) Conductors: 14 AWG (19x.015) Bare Copper Cond.          |      |                              |                  | .104 | 2.64 |

Jacket sequentially marked.

Third party verified to TIA/EIA-568-B.2, Category 5

DCR = DC Resistance • F-R = Flame-retardant • UTP = Unshielded Twisted Pair

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference: 1-800-BELDEN-1.

Request quotations of cables not listed.

#### Color Code: Cat 5e UTP

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



By:



INTERSTATE WIRE CO.

INCORPORATED

Belden Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

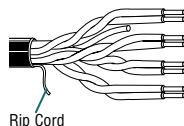
1-800-527-0010

## Data and Voice Cable

### Category 6 UTP Cables

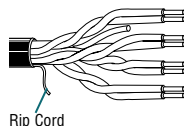
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                      |                                         |                                 |                    |

**23 AWG Solid Bare Copper • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)**

| Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, White or Black) |         |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|-----------------------------------------------------------------------------------------------------------------------|---------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
| <b>7881A</b><br>new<br><br>Rip Cord  | NEC:    | 4 | 1000   | 304.8   | 32.0 | 14.5 | .009 | .23 | .235 | 5.97 | 9.38 | 5.0 | 330 | 1     | 2.0  | 72.3 | 70.3 | 64.8 | 100±15 | 20.0 |
|                                                                                                                       | CMR     |   | A-1000 | A-304.8 | 34.0 | 15.4 |      |     |      |      |      |     |     | 10    | 6.0  | 57.3 | 51.3 | 44.8 | 100±15 | 25.0 |
|                                                                                                                       | CEC:    |   |        |         |      |      |      |     |      |      |      |     |     | 20    | 8.5  | 52.8 | 44.3 | 38.7 | 100±15 | 25.0 |
|                                                                                                                       | CMR FT4 |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 10.7 | 49.9 | 39.2 | 34.9 | 100±15 | 23.6 |
|                                                                                                                       |         |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 15.4 | 45.4 | 30.0 | 28.8 | 100±15 | 21.5 |
|                                                                                                                       |         |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 19.8 | 42.3 | 22.5 | 24.8 | 100±15 | 20.1 |
|                                                                                                                       |         |   |        |         |      |      |      |     |      |      |      |     |     | 200   | 29.0 | 37.8 | 8.8  | 18.7 | 100±22 | 18.0 |
|                                                                                                                       |         |   |        |         |      |      |      |     |      |      |      |     |     | 250   | 32.8 | 36.3 | 3.5  | 16.8 | 100±32 | 17.3 |

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2-1, Category 6

| Plenum • FEP Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, Natural or Black) |         |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |      |        |      |
|----------------------------------------------------------------------------------------------------------------------|---------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|------|--------|------|
| <b>7882A</b><br>new<br><br>Rip Cord | NEC:    | 4 | 1000   | 304.8   | 33.0 | 15.0 | .008 | .20 | .224 | 5.69 | 9.38 | 5.0 | 330 | 1     | 2.0  | 72.3 | 70.3 | 64.8 | 100±15 | 20.0 |
|                                                                                                                      | CMP     |   | A-1000 | A-304.8 | 35.0 | 15.9 |      |     |      |      |      |     |     | 10    | 6.0  | 57.3 | 51.3 | 44.8 | 100±15 | 25.0 |
|                                                                                                                      | CEC:    |   |        |         |      |      |      |     |      |      |      |     |     | 20    | 8.5  | 52.8 | 44.3 | 38.7 | 100±15 | 25.0 |
|                                                                                                                      | CMP FT6 |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 10.7 | 49.9 | 39.2 | 34.9 | 100±15 | 23.6 |
|                                                                                                                      |         |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 15.4 | 45.4 | 30.0 | 28.8 | 100±15 | 21.5 |
|                                                                                                                      |         |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 19.8 | 42.3 | 22.5 | 24.8 | 100±15 | 20.1 |
|                                                                                                                      |         |   |        |         |      |      |      |     |      |      |      |     |     | 200   | 29.0 | 37.8 | 8.8  | 18.7 | 100±22 | 18.0 |
|                                                                                                                      |         |   |        |         |      |      |      |     |      |      |      |     |     | 250   | 32.8 | 36.3 | 3.5  | 16.8 | 100±32 | 17.3 |

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For a complete selection of Belden® Data Cables, refer to the Networking Cables section of this catalog.

#### Color Codes

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



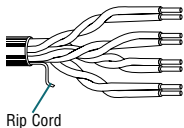
# Data and Voice Cable

## Enhanced Category 5e UTP Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                      |                                         |                                 |                    |

### 24 AWG Bonded-Pairs Solid Bare Copper • Rip Cord • See Color Code Chart (below)

| Non-Plenum • Polyolefin Insulation • PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Purple, Light Gray or Gray) |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|---|----------|---------|------|------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
| 75°C                                                                                                                         | <b>1700R</b><br><b>new</b> | NEC:    | 4 | U-1000 ▲ | U-304.8 | 22.0 | 10.0 | .009 | .23 | .204 | 5.18 | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|                                                                                                                              |                            | CMR     |   | 1000 ▲   | 304.8   | 22.0 | 10.0 |      |     |      |      |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|                                                                                                                              |                            | CEC:    |   | 3000 •   | 914.4   | 63.0 | 28.6 |      |     |      |      |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|                                                                                                                              |                            | CMR FT4 |   |          |         |      |      |      |     |      |      |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±20 | 19.0 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                              |                            |         |   |          |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |



Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126

• U-1000 ft. and 1000 ft. put-ups not available in Black or Gray.

• 3000 ft. put-up available in Red, Blue, Purple, White or Light Gray only.

Tested to 350 MHz.

| Plenum • FEP Insulation • Flamarrest® Jacket (Available in Red, Orange, Gray, Yellow, Green, Blue, Purple, Natural or Black) |       |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|------------------------------------------------------------------------------------------------------------------------------|-------|---------|---|--------|---------|------|------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
| 75°C                                                                                                                         | 1701A | NEC:    | 4 | U-1000 | U-304.8 | 23.0 | 10.5 | .008 | .20 | .200 | 5.08 | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|                                                                                                                              |       | CMP     |   | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |      |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|                                                                                                                              |       | CEC:    |   | 3000 * | 914.4   | 66.0 | 30.0 |      |     |      |      |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|                                                                                                                              |       | CMP FT6 |   |        |         |      |      |      |     |      |      |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±20 | 19.0 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|                                                                                                                              |       |         |   |        |         |      |      |      |     |      |      |     |     |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |



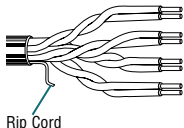
Rip Cord

Tested to 350 MHz.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126

\*3000 ft. put-up available in Red, Blue, Green, Yellow or Natural only.



Jacket sequentially marked at 2 ft. intervals.

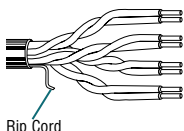
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126

• 3000 ft. put-up available in Red, Blue, Green, Yellow or Natural only.

Tested to 350 MHz.

### 24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)

| Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, White, Blue or Dark Gray) |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|---------------------------------------------------------------------------------------------------------------------|----------------------------|---------|---|--------|---------|------|------|------|-----|------|------|-----|-----|------|-------|------|------|------|------|--------|------|
| 80°C                                                                                                                | <b>1500R</b><br><b>new</b> | NEC:    | 4 | 1000   | 304.8   | 25.0 | 11.4 | .008 | .20 | .204 | 5.18 | 9.0 | 3.0 | 66.0 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|                                                                                                                     |                            | CMR     |   | A-1000 | A-304.8 | 28.0 | 12.7 |      |     |      |      |     |     |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|                                                                                                                     |                            | CEC:    |   |        |         |      |      |      |     |      |      |     |     |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|                                                                                                                     |                            | CMR FT4 |   |        |         |      |      |      |     |      |      |     |     |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±20 | 19.0 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      |       |      |      |      |      |        |      |
|                                                                                                                     |                            |         |   |        |         |      |      |      |     |      |      |     |     |      | </    |      |      |      |      |        |      |



Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

Tested to 350 MHz.

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For a complete selection of Belden® Data Cables, refer to the Networking Cables section of this catalog.

### Color Codes

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



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**1-800-527-0010**

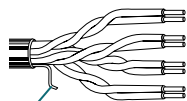
## Data and Voice Cable

### Category 5e UTP Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Insulation<br>Thickness |    | Nominal<br>OD |    | Max.<br>DCR<br>( $\Omega$ /<br>100m) | Max.<br>DCR<br>Unbal.<br>(%) | Max.<br>Cap.<br>Unbal.<br>(pF/<br>100m) | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|-------------------------|----|---------------|----|--------------------------------------|------------------------------|-----------------------------------------|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                    | mm | Inch          | mm |                                      |                              |                                         |                |                                 |                              |                                      |                                         |                                 |                    |

**24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

| Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in White, Black, Dark Gray, Blue, Red, Orange, Yellow, Green or Pink) |       |         |   |          |         |      |      |      |     |      |      |      |     |     |       |      |      |      |        |        |      |
|----------------------------------------------------------------------------------------------------------------------------------|-------|---------|---|----------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|--------|--------|------|
| 75°C                                                                                                                             | 1583R | NEC:    | 4 | U-1000 ▲ | U-304.8 | 22.0 | 10.0 | .008 | .20 | .214 | 5.44 | 9.38 | 5.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8   | 100±15 | 20.0 |
|                                                 |       | CMR     |   | 1000 ▲   | 304.8   | 22.0 | 10.0 |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7   | 100±15 | 23.0 |
|                                                                                                                                  |       | CEC:    |   | 3000 ▲   | 914.4   | 66.0 | 30.0 |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8   | 100±15 | 25.0 |
|                                                                                                                                  |       | CMR FT4 |   |          |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7   | 100±15 | 25.0 |
|                                                                                                                                  |       |         |   |          |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9   | 100±15 | 23.6 |
|                                                                                                                                  |       |         |   |          |         |      |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.4 | 19.0 | 24.8   | 100±15 | 21.5 |
|                                                                                                                                  |       |         |   |          |         |      |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.3 | 11.0 | 20.8   | 100±15 | 20.1 |
|                                                                                                                                  |       |         |   |          |         |      |      |      |     |      |      |      |     | 200 | 32.0  | 27.8 | 1.0  | 14.7 | 100±25 | 15.0   |      |



Rip Cord

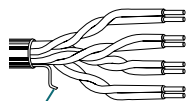
Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

\*U-1000 ft. and 1000 ft. put-ups not available in Black.

\*3000 ft. put-ups available in Dark Gray, White or Blue only.

| Plenum • FEP Insulation • Flamarrest® Jacket (Available in Natural, Blue, Red, Orange, Yellow, Green, Gray, Black or Pink) |       |         |   |        |         |      |      |      |     |      |      |      |     |     |       |      |      |      |        |        |      |
|----------------------------------------------------------------------------------------------------------------------------|-------|---------|---|--------|---------|------|------|------|-----|------|------|------|-----|-----|-------|------|------|------|--------|--------|------|
| 75°C                                                                                                                       | 1585A | NEC:    | 4 | U-1000 | U-304.8 | 23.0 | 10.5 | .007 | .18 | .200 | 5.08 | 9.38 | 3.0 | 330 | 1     | 2.0  | 62.3 | 60.0 | 60.8   | 100±15 | 20.0 |
|                                           |       | CMP     |   | 1000   | 304.8   | 23.0 | 10.5 |      |     |      |      |      |     |     | 4     | 4.1  | 53.3 | 49.0 | 48.7   | 100±15 | 23.0 |
|                                                                                                                            |       | CEC:    |   | 3000   | 914.6   | 69.0 | 31.4 |      |     |      |      |      |     |     | 10    | 6.5  | 47.3 | 41.0 | 40.8   | 100±15 | 25.0 |
|                                                                                                                            |       | CMP FT6 |   |        |         |      |      |      |     |      |      |      |     |     | 16    | 8.2  | 44.3 | 36.0 | 36.7   | 100±15 | 25.0 |
|                                                                                                                            |       |         |   |        |         |      |      |      |     |      |      |      |     |     | 31.25 | 11.7 | 39.9 | 28.0 | 30.9   | 100±15 | 23.6 |
|                                                                                                                            |       |         |   |        |         |      |      |      |     |      |      |      |     |     | 62.5  | 17.0 | 35.4 | 19.0 | 24.8   | 100±15 | 21.5 |
|                                                                                                                            |       |         |   |        |         |      |      |      |     |      |      |      |     |     | 100   | 22.0 | 32.3 | 11.0 | 20.8   | 100±15 | 20.1 |
|                                                                                                                            |       |         |   |        |         |      |      |      |     |      |      |      |     | 200 | 32.0  | 27.8 | 1.0  | 14.7 | 100±25 | 15.0   |      |



Rip Cord

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

\*3000 ft. put-up available in Natural or Blue only.

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For a complete selection of Belden® Data Cables, refer to the Networking Cables section of this catalog.

#### Color Codes

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

## Video Cable

### DBS and Broadband CATV Coaxial Cables

#### Series 6 (RG-6/U Type)

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 6 • 18 AWG Solid .040" Bare Copper Conductor • Duobond® + Aluminum Braid(s) Shield

##### Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black or White)

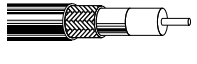
|                                                                                                   |      |                                    |                 |        |         |      |      |                   |      |      |                                             |      |      |    |     |      |      |     |     |      |
|---------------------------------------------------------------------------------------------------|------|------------------------------------|-----------------|--------|---------|------|------|-------------------|------|------|---------------------------------------------|------|------|----|-----|------|------|-----|-----|------|
| <br>Shorting Fold | 80°C | <b>7915A</b><br><small>new</small> | NEC:<br>CATV CM | U-500  | U-152.4 | 16.0 | 7.3  | 18 AWG<br>(solid) | .180 | 4.57 | Duobond<br>Plus® + 80%<br>Aluminum<br>Braid | .275 | 6.99 | 75 | 83% | 16.2 | 53.1 | 5   | .5  | 1.6  |
|                                                                                                   |      |                                    | CEC:<br>CM      | 500    | 152.4   | 18.0 | 8.2  | .040"             |      |      |                                             |      |      |    |     |      |      | 55  | 1.4 | 4.6  |
|                                                                                                   |      |                                    |                 | U-1000 | U-304.8 | 34.0 | 15.5 |                   |      |      |                                             |      |      |    |     |      |      | 211 | 2.6 | 8.5  |
|                                                                                                   |      |                                    |                 | 1000   | 304.8   | 34.0 | 15.5 | BC                |      |      |                                             |      |      |    |     |      |      | 500 | 4.1 | 13.5 |
|                                                                                                   |      |                                    |                 |        |         |      |      | 6.4Ω/M'           |      |      | 4.6Ω/M'                                     |      |      |    |     |      |      | 750 | 5.1 | 16.7 |
|                                                                                                   |      |                                    |                 |        |         |      |      | 21.0Ω/km          |      |      | 15.1Ω/km                                    |      |      |    |     |      |      | 862 | 5.5 | 18.0 |

Sweep tested 5 MHz to 2.25 GHz.

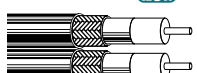
|                                                                                  |      |                                    |                 |        |         |      |      |                   |      |      |                             |      |      |    |     |      |      |     |     |      |
|----------------------------------------------------------------------------------|------|------------------------------------|-----------------|--------|---------|------|------|-------------------|------|------|-----------------------------|------|------|----|-----|------|------|-----|-----|------|
|  | 80°C | <b>7916A</b><br><small>new</small> | NEC:<br>CATV CM | U-500  | U-152.4 | 18.0 | 8.2  | 18 AWG<br>(solid) | .180 | 4.57 | Duobond IV*<br>60% &<br>40% | .298 | 7.57 | 75 | 83% | 16.2 | 53.1 | 5   | .5  | 1.6  |
|                                                                                  |      |                                    | CEC:<br>CM      | 500    | 152.4   | 20.0 | 9.1  | .040"             |      |      |                             |      |      |    |     |      |      | 55  | 1.4 | 4.6  |
|                                                                                  |      |                                    |                 | U-1000 | U-304.8 | 37.0 | 16.8 |                   |      |      |                             |      |      |    |     |      |      | 211 | 2.6 | 8.5  |
|                                                                                  |      |                                    |                 | 1000   | 304.8   | 37.0 | 16.8 | BC                |      |      | Aluminum<br>Braids          |      |      |    |     |      |      | 500 | 4.1 | 13.5 |
|                                                                                  |      |                                    |                 |        |         |      |      | 6.4Ω/M'           |      |      | 4.8Ω/M'                     |      |      |    |     |      |      | 750 | 5.1 | 16.7 |
|                                                                                  |      |                                    |                 |        |         |      |      | 21.0Ω/km          |      |      | 15.7Ω/km                    |      |      |    |     |      |      | 862 | 5.5 | 18.0 |

Sweep tested 5 MHz to 2.25 GHz.

##### Gas-injected Foam Polyethylene Insulation • PVC Jacket (Black, Gray or White)

|                                                                                  |      |               |                 |        |         |      |      |                   |      |      |                                          |      |      |    |     |      |      |     |     |      |
|----------------------------------------------------------------------------------|------|---------------|-----------------|--------|---------|------|------|-------------------|------|------|------------------------------------------|------|------|----|-----|------|------|-----|-----|------|
|  | 80°C | <b>1829AC</b> | NEC:<br>CATV CM | U-1000 | U-304.8 | 31.0 | 14.1 | 18 AWG<br>(solid) | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid | .270 | 6.86 | 75 | 83% | 16.2 | 53.1 | 5   | .5  | 1.6  |
|                                                                                  |      |               | CEC:<br>CM      | 1000   | 304.8   | 31.0 | 14.1 | .040"             |      |      |                                          |      |      |    |     |      |      | 55  | 1.4 | 4.6  |
|                                                                                  |      |               |                 |        |         |      |      | BC                |      |      |                                          |      |      |    |     |      |      | 211 | 2.6 | 8.5  |
|                                                                                  |      |               |                 |        |         |      |      | 6.4Ω/M'           |      |      | 9.0Ω/M'                                  |      |      |    |     |      |      | 500 | 4.1 | 13.5 |
|                                                                                  |      |               |                 |        |         |      |      | 21.0Ω/km          |      |      | 29.5Ω/km                                 |      |      |    |     |      |      | 750 | 5.1 | 16.7 |
|                                                                                  |      |               |                 |        |         |      |      |                   |      |      |                                          |      |      |    |     |      |      | 862 | 5.5 | 18.0 |

Sweep tested 950 MHz to 2.25 GHz.

|                                                                                    |      |                                     |                 |     |       |      |      |                   |      |      |                                          |      |       |    |     |      |      |     |     |      |
|------------------------------------------------------------------------------------|------|-------------------------------------|-----------------|-----|-------|------|------|-------------------|------|------|------------------------------------------|------|-------|----|-----|------|------|-----|-----|------|
|  | 80°C | <b>1841AC</b><br><small>new</small> | NEC:<br>CATV CM | 500 | 152.4 | 33.0 | 15.0 | 18 AWG<br>(solid) | .180 | 4.57 | Duobond II<br>+ 60%<br>Aluminum<br>Braid | .273 | 6.93  | 75 | 83% | 16.2 | 53.1 | 5   | .5  | 1.6  |
|                                                                                    |      |                                     | CEC:<br>CM      |     |       |      |      | .040"             |      |      |                                          | x    | x     |    |     |      |      | 55  | 1.4 | 4.6  |
|                                                                                    |      |                                     |                 |     |       |      |      | BC                |      |      |                                          | .595 | 15.11 |    |     |      |      | 211 | 2.6 | 8.5  |
|                                                                                    |      |                                     |                 |     |       |      |      | 6.4Ω/M'           |      |      | 9.0Ω/M'                                  |      |       |    |     |      |      | 500 | 4.1 | 13.5 |
|                                                                                    |      |                                     |                 |     |       |      |      | 21.0Ω/km          |      |      | 29.5Ω/km                                 |      |       |    |     |      |      | 750 | 5.1 | 16.7 |
|                                                                                    |      |                                     |                 |     |       |      |      |                   |      |      |                                          |      |       |    |     |      |      | 862 | 5.5 | 18.0 |

Sweep tested 950 MHz to 2.25 GHz.

BC = Bare Copper • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.  
For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

\* Duobond IV = Duobond II + 60% aluminum braid + Duofoil® tape + 40% aluminum braid.



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1-800-527-0010

## Video Cable

### DBS and Broadband CATV Coaxial Cables

#### Series 6 (RG-6/U Type)

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

#### Series 6 • 18 AWG Solid .040" Bare Copper-covered Steel • Duobond® IV\* Quad Shield

##### Gas-injected Foam Polyethylene Insulation • Black PVC Jacket

|                                                                                   |       |         |         |         |      |         |          |      |           |            |      |      |    |     |      |      |                              |
|-----------------------------------------------------------------------------------|-------|---------|---------|---------|------|---------|----------|------|-----------|------------|------|------|----|-----|------|------|------------------------------|
| 80°C                                                                              | 1189A | NEC:    | U-500▼  | U-152.4 | 16.0 | 7.3     | 18 AWG   | .180 | 4.57      | Duobond IV | .298 | 7.57 | 75 | 83% | 16.2 | 53.1 | See Chart<br>on page 6.88    |
|  | CATV  | U-1000▲ | U-304.8 | 37.0    | 16.8 | (solid) |          |      | 60% & 40% |            |      |      |    |     |      |      |                              |
|                                                                                   | CM    | 1000◆   | 304.8   | 37.0    | 16.8 | .040"   |          |      | Aluminum  |            |      |      |    |     |      |      |                              |
|                                                                                   | CEC:  |         |         |         |      |         | BCCS     |      |           | Braids     |      |      |    |     |      |      |                              |
|                                                                                   | CM    |         |         |         |      |         | 28.0Ω/M' |      |           | 4.8Ω/M'    |      |      |    |     |      |      | Sweep tested 5 MHz to 1 GHz. |
|                                                                                   |       |         |         |         |      |         | 91.9Ω/km |      |           | 15.7Ω/km   |      |      |    |     |      |      |                              |

▼U-500 ft. put-up also available in White.

▲U-1000 ft. put-up available in White and Neutral only.

•1000 ft. put-up also available in White, Beige or Neutral.

##### Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

|      |                                     |                                         |                                          |                  |              |              |                                                            |      |      |                                                                      |                              |      |    |     |      |      |                                                          |                                                           |                                                                 |
|------|-------------------------------------|-----------------------------------------|------------------------------------------|------------------|--------------|--------------|------------------------------------------------------------|------|------|----------------------------------------------------------------------|------------------------------|------|----|-----|------|------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| 75°C | <b>1189AP</b><br><small>new</small> | NEC:<br>CATVP<br>CMP<br>CEC:<br>CMP FT6 | U-1000 <sup>†</sup><br>1000 <sup>†</sup> | U-304.8<br>304.8 | 41.0<br>42.0 | 18.6<br>19.1 | 18 AWG<br>(solid)<br>.040"<br>BCCS<br>28.0Ω/M'<br>91.9Ω/km | .170 | 4.32 | Duobond IV<br>60% & 40%<br>Aluminum<br>Braids<br>4.8Ω/M'<br>15.7Ω/km | .248                         | 6.30 | 75 | 83% | 16.3 | 53.5 | 1<br>10<br>50<br>100<br>200<br>400<br>700<br>900<br>1000 | .3<br>.7<br>1.6<br>2.2<br>3.0<br>4.6<br>6.6<br>7.7<br>8.2 | 1.0<br>2.2<br>5.2<br>7.2<br>9.8<br>15.1<br>21.7<br>25.3<br>26.9 |
|      |                                     |                                         |                                          |                  |              |              |                                                            |      |      |                                                                      | Sweep tested 5 MHz to 1 GHz. |      |    |     |      |      |                                                          |                                                           |                                                                 |

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

\*Duobond IV = Duobond II + 60% aluminum braid + Duofoil® tape + 40% aluminum braid.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

## Video Cable

Precision Video Cables for Analog and Digital Applications  
RG-6/U and RG-59/U Types

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|---------------------|--------------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                     |                          | pF/ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### RG-6/U Type • 18 AWG Solid .040" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------|--------------|---------|------------------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                 | <b>1694A</b> | NEC:    | 500 <sup>▲</sup> | 152.4  | 23.0  | 10.5 | 18 AWG   | .180 | 4.57 | Duofoil  | .275 | 6.99 | 75 | 82% | 16.2 | 53.1 | 1    | .2   | .8   |
| Digital Video                                                            | <b>new</b>   | CMR     | 1000             | 304.8  | 45.0  | 20.5 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .5   | 1.5  |
| 75°C                                                                     |              | CEC:    | 4500             | 1371.6 | 200.5 | 91.1 | .040"    |      |      | TC Braid |      |      |    |     |      |      | 10   | .7   | 2.4  |
|                                                                          |              | CMG FT4 |                  |        |       |      | BC       |      |      | 2.8Ω/M'  |      |      |    |     |      |      | 71.5 | 1.6  | 5.2  |
|                                                                          |              |         |                  |        |       |      | 6.4Ω/M'  |      |      | 9.2Ω/km  |      |      |    |     |      |      | 135  | 2.1  | 6.9  |
|                                                                          |              |         |                  |        |       |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.0  | 9.7  |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 360  | 3.4  | 11.3 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 540  | 4.3  | 13.9 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 720  | 4.9  | 16.1 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 750  | 5.0  | 16.4 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 1000 | 5.9  | 19.3 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 1500 | 7.3  | 24.0 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 2250 | 9.1  | 30.0 |
|                                                                          |              |         |                  |        |       |      |          |      |      |          |      |      |    |     |      |      | 3000 | 10.7 | 35.0 |

\*500 ft. put-up available in Black only.

\*Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

| Plenum • Foam FEP Insulation • Flamarrest® Jacket (Available in 10 colors)** |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|------------------------------------------------------------------------------|--------------|---------|-------------------|-------|------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                     | <b>1695A</b> | NEC:    | 500 <sup>†</sup>  | 152.4 | 22.5 | 10.2 | 18 AWG   | .170 | 4.32 | Duofoil  | .234 | 5.94 | 75 | 82% | 16.2 | 53.1 | 1    | .2   | .8   |
| Digital Video                                                                | <b>new</b>   | CMP     | 1000 <sup>†</sup> | 304.8 | 45.0 | 20.5 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .5   | 1.5  |
| 75°C                                                                         |              | CEC:    |                   |       |      |      | .040"    |      |      | TC Braid |      |      |    |     |      |      | 10   | .8   | 2.5  |
|                                                                              |              | CMP FT6 |                   |       |      |      | BC       |      |      | 2.8Ω/M'  |      |      |    |     |      |      | 71.5 | 1.8  | 5.8  |
|                                                                              |              |         |                   |       |      |      | 6.4Ω/M'  |      |      | 9.2Ω/km  |      |      |    |     |      |      | 135  | 2.4  | 7.9  |
|                                                                              |              |         |                   |       |      |      | 21.0Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.4  | 11.2 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 360  | 4.0  | 13.1 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 540  | 5.2  | 17.1 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 720  | 6.1  | 20.0 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 750  | 7.3  | 23.9 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 1000 | 7.5  | 24.6 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 1500 | 9.2  | 30.2 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 2250 | 11.6 | 38.0 |
|                                                                              |              |         |                   |       |      |      |          |      |      |          |      |      |    |     |      |      | 3000 | 13.7 | 44.9 |

\*500 ft. put-up available in Black, Red, Yellow, Violet or Natural only.

\*Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural.

### RG-59/U Type • 20 AWG Solid .032" Bare Copper • Duofoil + 95% Tinned Copper Braid Shield

| Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)* |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      |      |      |      |
|--------------------------------------------------------------------------|--------------|---------|-------------------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV                                                                 | <b>1505A</b> | NEC:    | 500 <sup>▼</sup>  | 152.4  | 17.5  | 8.0  | 20 AWG   | .145 | 3.68 | Duofoil  | .234 | 5.94 | 75 | 83% | 16.3 | 53.5 | 1    | .3   | 1.0  |
| Digital Video                                                            |              | CMR     | 1000 <sup>+</sup> | 304.8  | 36.0  | 16.4 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .6   | 1.8  |
| 75°C                                                                     |              | CEC:    | 5000 <sup>+</sup> | 1524.0 | 165.4 | 75.2 | .032"    |      |      | TC Braid |      |      |    |     |      |      | 10   | .9   | 2.9  |
|                                                                          |              | CMG FT4 |                   |        |       |      | BC       |      |      | 3.8Ω/M'  |      |      |    |     |      |      | 71.5 | 2.1  | 6.9  |
|                                                                          |              |         |                   |        |       |      | 10.0Ω/M' |      |      | 12.5Ω/km |      |      |    |     |      |      | 135  | 2.7  | 8.9  |
|                                                                          |              |         |                   |        |       |      | 32.8Ω/km |      |      |          |      |      |    |     |      |      | 270  | 3.8  | 12.5 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 360  | 4.4  | 14.4 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 540  | 5.5  | 18.0 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 720  | 6.4  | 21.0 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 750  | 6.5  | 21.3 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 1000 | 7.6  | 24.9 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 1500 | 9.3  | 30.5 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 2250 | 11.6 | 38.0 |
|                                                                          |              |         |                   |        |       |      |          |      |      |          |      |      |    |     |      |      | 3000 | 13.4 | 44.0 |

▼500 ft. put-up available in Black, Red or Blue only.

+1000 ft. and 5000 ft. put-ups available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray or White.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.  
For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

†Spools are one piece, but length may vary ±10% from length shown.



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1-800-527-0010

## Video Cable

Precision Video Cables for Analog and Digital Applications  
Subminiature and Standard Analog RG-59/U Types

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### Subminiature RG-59/U Type • 23 AWG Solid .023" Bare Copper • Duofoil® + 95% Tinned Copper Braid Shield

#### Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)\*

|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      |      |      |      |
|---------------|--------------|---------|---------------------|---------|------|-----|----------|------|------|----------|------|------|----|-----|------|------|------|------|------|
| SDI/HDTV      | <b>1855A</b> | NEC:    | 500 <sup>▲</sup>    | 152.4   | 9.0  | 4.1 | 23 AWG   | .102 | 2.59 | Duofoil  | .159 | 4.03 | 75 | 83% | 16.3 | 53.5 | 1    | .4   | 1.3  |
| Digital Video |              | CMR     | 1000                | 304.8   | 18.0 | 8.2 | (solid)  |      |      | + 95%    |      |      |    |     |      |      | 3.6  | .8   | 2.6  |
| 75°C          |              | CEC:    | U-1000 <sup>•</sup> | U-304.8 | 18.0 | 8.2 | .023"    |      |      | TC Braid |      |      |    |     |      |      | 10   | 1.2  | 3.9  |
|               |              | CMG FT4 |                     |         |      |     | BC       |      |      | 7.6Ω/M'  |      |      |    |     |      |      | 71.5 | 3.1  | 10.0 |
|               |              |         |                     |         |      |     | 20.1Ω/M' |      |      | 24.9Ω/km |      |      |    |     |      |      | 135  | 3.8  | 12.5 |
|               |              |         |                     |         |      |     | 65.9Ω/km |      |      |          |      |      |    |     |      |      | 270  | 5.4  | 17.7 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 360  | 6.2  | 20.3 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 540  | 7.7  | 25.3 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 720  | 9.5  | 31.1 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 750  | 9.6  | 31.5 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 1000 | 10.5 | 34.4 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 1500 | 13.0 | 42.6 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 2250 | 16.0 | 52.5 |
|               |              |         |                     |         |      |     |          |      |      |          |      |      |    |     |      |      | 3000 | 18.5 | 60.7 |

\*500 ft. put-up available in Black only.

\*U-1000 ft. put-up available in Gray only.

Also available in multiples, bundled.  
See 7787A through 7792A.  
100% Sweep tested. 5 MHz to 3 GHz.

### Standard Analog • RG-59/U Type • 23 AWG Solid .023" Bare Copper • 95% Bare Copper Braid Shield

#### Polyethylene Insulation • Black PVC Jacket

|            |              |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |      |      |
|------------|--------------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|------|------|
| UL AWM     | <b>8241B</b> | NEC: | U-1000 | U-304.8 | 38.0 | 17.3 | 23 AWG   | .146 | 3.71 | BC Braid   | .242 | 6.15 | 75 | 66% | 20.5 | 67.3 | 1    | .4   | 1.3  |
| Style 1354 |              | CM   | 1000   | 304.8   | 37.0 | 16.8 | (solid)  |      |      | 95% Shield |      |      |    |     |      |      | 10   | 1.1  | 3.6  |
| (30V 80°C) |              | CEC: |        |         |      |      | .023"    |      |      | Coverage   |      |      |    |     |      |      | 50   | 2.4  | 7.9  |
|            |              | CM   |        |         |      |      | BC       |      |      | 2.9Ω/M'    |      |      |    |     |      |      | 100  | 3.4  | 11.2 |
|            |              |      |        |         |      |      | 20.4Ω/M' |      |      | 9.5Ω/km    |      |      |    |     |      |      | 200  | 4.9  | 16.1 |
|            |              |      |        |         |      |      | 66.9Ω/km |      |      |            |      |      |    |     |      |      | 400  | 7.0  | 23.0 |
|            |              |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 9.7  | 31.8 |
|            |              |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 11.1 | 36.4 |
|            |              |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 12.0 | 39.4 |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.  
For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

\*Available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.

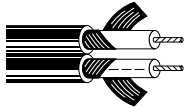
## Video Cable

### High-Flex SVHS Cables and Bundled RGB Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|--------------------|---------------------|---|-------------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              |                    | Ft.                 | m | Lbs.                    | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

#### High-Flex SVHS • 30 AWG Stranded (7x38) .012" Tinned Copper • Tinned Copper Serve (90% Shield Coverage)

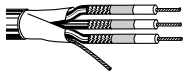
| Foam HDPE Insulation • Matte Black PVC Jacket (One Coax Printed and Striped for Identification) |       |   |        |         |      |     |           |      |      |            |      |      |    |                                         |      |      |      |      |      |  |
|-------------------------------------------------------------------------------------------------|-------|---|--------|---------|------|-----|-----------|------|------|------------|------|------|----|-----------------------------------------|------|------|------|------|------|--|
| Parallel Zip Construction                                                                       | 1807A | 2 | U-500  | U-152.4 | 8.0  | 3.6 | 30 AWG    | .058 | 1.47 | TC Serve   | .110 | 2.79 | 75 | 78%                                     | 17.3 | 56.7 | 1    | .6   | 2.0  |  |
|                                                                                                 |       |   | 500    | 152.4   | 8.5  | 3.9 | (7x38)    |      |      | 90% Shield | x    | x    |    |                                         |      |      | 5    | 1.4  | 4.6  |  |
|                                                                                                 |       |   | U-1000 | U-304.8 | 15.0 | 6.8 | .012"     |      |      | Coverage   | .230 | 5.84 |    |                                         |      |      | 10   | 2.1  | 6.9  |  |
|                                                                                                 |       |   | 1000   | 304.8   | 19.0 | 8.6 | TC        |      |      | 7.5Ω/M'    |      |      |    |                                         |      | 30   | 3.8  | 12.5 |      |  |
|                                                                                                 |       |   |        |         |      |     | 100.0Ω/M' |      |      | 24.6Ω/km   |      |      |    |                                         | 50   | 5.1  | 16.7 |      |      |  |
|                 |       |   |        |         |      |     | 328.0Ω/km |      |      |            |      |      |    |                                         |      |      | 100  | 7.6  | 24.9 |  |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |                                         |      |      | 200  | 11.3 | 37.1 |  |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |                                         |      |      | 400  | 16.9 | 55.4 |  |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |                                         |      |      | 700  | 23.3 | 76.4 |  |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |                                         |      |      | 900  | 26.9 | 88.2 |  |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    |                                         |      |      | 1000 | 28.6 | 93.8 |  |
|                                                                                                 |       |   |        |         |      |     |           |      |      |            |      |      |    | For Plenum version of 1807A, see 7700A. |      |      |      |      |      |  |



For Plenum version of 1807A, see 7700A.

#### Bundled RGB • Miniature • 30 AWG Stranded (7x38) .012" TC • Duofoil® + 90% TC Braid (Coaxes) • 100% Overall Beldfoil® Shield

| Foam HDPE Insulation • Overall Black PVC Jacket (Color Code: Red, Green, Blue, White, Yellow) |       |          |   |      |       |      |      |               |      |      |                   |      |      |    |     |      |      |      |      |       |
|-----------------------------------------------------------------------------------------------|-------|----------|---|------|-------|------|------|---------------|------|------|-------------------|------|------|----|-----|------|------|------|------|-------|
| UL AWM Style 1354 (30V 60°C)                                                                  | 1520A | NEC: CL2 | 3 | 500  | 152.4 | 25.0 | 11.4 | 30 AWG (7x38) | .056 | 1.42 | Coaxes: Duofoil   | .283 | 7.19 | 75 | 78% | 17.3 | 56.7 | 1    | .8   | 2.6   |
|                                                                                               |       |          |   | 1000 | 304.8 | 50.0 | 22.7 | .012"         |      |      | + 90% TC Braid    |      |      |    |     |      |      | 5    | 1.5  | 4.9   |
|                                                                                               |       |          |   |      |       |      |      | 100.0Ω/M'     | .102 | 2.59 | Overall: Beldfoil |      |      |    |     |      |      | 10   | 2.2  | 7.2   |
|                                                                                               |       |          |   |      |       |      |      | 328.0Ω/km     |      |      | 9.5Ω/M'           |      |      |    |     |      |      | 30   | 4.0  | 13.1  |
|                                                                                               |       |          |   |      |       |      |      |               |      |      | 31.2Ω/km          |      |      |    |     |      |      | 50   | 5.4  | 17.7  |
|                                                                                               |       |          |   |      |       |      |      |               |      |      |                   |      |      |    |     |      |      | 100  | 8.2  | 26.9  |
|                                                                                               |       |          |   |      |       |      |      |               |      |      |                   |      |      |    |     |      |      | 200  | 12.5 | 41.0  |
|                                                                                               | 1521A | NEC: CL2 | 4 | 500  | 152.4 | 30.0 | 13.6 | same as above | .056 | 1.42 | same as above     | .310 | 7.87 |    |     |      |      | 400  | 18.9 | 62.0  |
|                                                                                               |       |          |   | 1000 | 304.8 | 60.0 | 27.3 | same as above | .102 | 2.59 | same as above     |      |      |    |     |      |      | 700  | 26.5 | 86.9  |
|                                                                                               |       |          |   |      |       |      |      |               |      |      |                   |      |      |    |     |      |      | 900  | 30.8 | 101.0 |
|                                                                                               | 1522A | NEC: CL2 | 5 | 500  | 152.4 | 34.0 | 15.5 | same as above | .056 | 1.42 | same as above     | .338 | 8.59 |    |     |      |      | 1000 | 32.8 | 107.6 |
|                                                                                               |       |          |   | 1000 | 304.8 | 68.0 | 30.9 | same as above | .102 | 2.59 | same as above     |      |      |    |     |      |      |      |      |       |
|                                                                                               |       |          |   |      |       |      |      |               |      |      |                   |      |      |    |     |      |      |      |      |       |



100% Sweep tested. 10 MHz to 40 MHz.

#### Bundled RGB • High-Flex • 26 AWG Stranded (7x34) .019" Bare Copper • Duofoil + 93% Tinned Copper Braid Shield

| Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: Red, Green, Blue, White, Yellow) |       |  |   |       |       |       |      |               |      |      |                        |      |       |    |     |      |      |      |      |      |
|-----------------------------------------------------------------------------------------------------|-------|--|---|-------|-------|-------|------|---------------|------|------|------------------------|------|-------|----|-----|------|------|------|------|------|
| 60°C                                                                                                | 1406B |  | 3 | 1000† | 304.8 | 75.0  | 34.1 | 26 AWG (7x34) | .090 | 2.29 | Duofoil + 93% TC Braid | .388 | 9.86  | 75 | 78% | 17.3 | 56.7 | 1    | .6   | 2.0  |
|                                                                                                     |       |  |   |       |       |       |      | .019"         |      |      | 8.6Ω/M'                |      |       |    |     |      |      | 5    | 1.3  | 4.3  |
|                                                                                                     |       |  |   |       |       |       |      | BC            | .146 | 3.71 | 28.2Ω/km               |      |       |    |     |      |      | 10   | 1.8  | 5.9  |
|                                                                                                     |       |  |   |       |       |       |      | 41.5Ω/M'      |      |      |                        |      |       |    |     |      |      | 30   | 3.1  | 10.2 |
|                                                                                                     |       |  |   |       |       |       |      | 136.0Ω/km     |      |      |                        |      |       |    |     |      |      | 50   | 3.9  | 12.8 |
|                                                                                                     |       |  |   |       |       |       |      |               |      |      |                        |      |       |    |     |      |      | 100  | 5.4  | 17.7 |
|                                                                                                     |       |  |   |       |       |       |      |               |      |      |                        |      |       |    |     |      |      | 200  | 7.5  | 24.6 |
|                                                                                                     | 1407B |  | 4 | 1000† | 304.8 | 100.0 | 45.5 | same as above | .090 | 2.29 | same as above          | .455 | 11.56 |    |     |      |      | 400  | 10.4 | 34.1 |
|                                                                                                     |       |  |   |       |       |       |      | same as above | .146 | 3.71 | same as above          |      |       |    |     |      |      | 700  | 13.5 | 44.3 |
|                                                                                                     |       |  |   |       |       |       |      |               |      |      |                        |      |       |    |     |      |      | 900  | 15.2 | 49.9 |
|                                                                                                     | 1417B |  | 5 | 1000† | 304.8 | 120.0 | 54.5 | same as above | .090 | 2.29 | same as above          | .477 | 12.12 |    |     |      |      | 1000 | 15.9 | 52.2 |
|                                                                                                     |       |  |   |       |       |       |      | same as above | .146 | 3.71 | same as above          |      |       |    |     |      |      |      |      |      |
|                                                                                                     |       |  |   |       |       |       |      |               |      |      |                        |      |       |    |     |      |      |      |      |      |

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1.

For additional selection of Belden® Video Cables, refer to the Coaxial and Broadcast Cables sections of this catalog.

†Spools are one piece, but length may vary ±10% from length shown.



By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

## Audio Cable

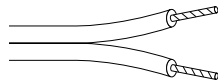
High-Conductivity Electrolytic Tough Pitch (ETP) Copper Speaker Cables and AES/EBU Digital Audio Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|----------------------|----|------------|----|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

**Speaker Cables • 16 AWG** Stranded (26x30) • ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

### PVC Insulation • Clear PVC Jacket

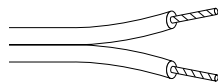
|                                        |      |  |   |                |                  |            |            |      |     |                   |                   |
|----------------------------------------|------|--|---|----------------|------------------|------------|------------|------|-----|-------------------|-------------------|
| Parallel Zip Construction<br>300V 60°C | 9716 |  | 2 | U-1000<br>1000 | U-304.8<br>304.8 | 8.0<br>7.0 | 3.6<br>3.2 | .027 | .69 | .115<br>x<br>.230 | 2.92<br>x<br>5.84 |
|----------------------------------------|------|--|---|----------------|------------------|------------|------------|------|-----|-------------------|-------------------|



**Speaker Cables • 14 AWG** Stranded (19x27) • ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

### PVC Insulation • Clear PVC Jacket

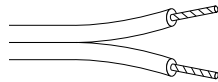
|                                   |      |  |   |                |                  |              |              |      |     |                   |                   |
|-----------------------------------|------|--|---|----------------|------------------|--------------|--------------|------|-----|-------------------|-------------------|
| Parallel Zip Construction<br>60°C | 9717 |  | 2 | U-1000<br>1000 | U-304.8<br>304.8 | 43.0<br>42.0 | 19.5<br>19.1 | .035 | .89 | .146<br>x<br>.292 | 3.71<br>x<br>7.42 |
|-----------------------------------|------|--|---|----------------|------------------|--------------|--------------|------|-----|-------------------|-------------------|



**Speaker Cables • 12 AWG** Stranded (65x30) • ETP High-conductivity Copper • Parallel: (1) Tinned, (1) Bare

### PVC Insulation • Clear PVC Jacket

|                                   |      |  |   |             |                |              |              |      |      |                   |                   |
|-----------------------------------|------|--|---|-------------|----------------|--------------|--------------|------|------|-------------------|-------------------|
| Parallel Zip Construction<br>60°C | 9718 |  | 2 | 500<br>1000 | 152.4<br>304.8 | 33.0<br>66.0 | 15.0<br>30.0 | .045 | 1.14 | .185<br>x<br>.370 | 4.70<br>x<br>9.40 |
|-----------------------------------|------|--|---|-------------|----------------|--------------|--------------|------|------|-------------------|-------------------|



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard Unit Weight |    | Nom. DCR |        | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|----------------------|----|----------|--------|------------|----|---------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                 | kg | Cond.    | Shield | Inch       | mm |                     |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**AES/EBU Digital Audio • 24 AWG** Stranded (7x32) • Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® Shield • 24 AWG Drain Wire

### Datalene® Insulation • Slate Gray or Violet PVC Jacket

|      |       |                                |   |               |                                   |                                     |                              |                           |                      |                      |      |      |     |     |    |    |    |    |
|------|-------|--------------------------------|---|---------------|-----------------------------------|-------------------------------------|------------------------------|---------------------------|----------------------|----------------------|------|------|-----|-----|----|----|----|----|
| 60°C | 1800B | NEC:<br>CMG<br>CEC:<br>CMG FT4 | 1 | Black,<br>Red | 500 •<br>U-1000<br>1000<br>5000 • | 152.4<br>U-304.8<br>304.8<br>1524.0 | 12.0<br>18.0<br>18.0<br>88.8 | 5.5<br>8.2<br>8.2<br>40.4 | 23.7Ω/M'<br>77.7Ω/km | 18.9Ω/M'<br>62.0Ω/km | .177 | 4.57 | 110 | 76% | 13 | 43 | 26 | 85 |
|------|-------|--------------------------------|---|---------------|-----------------------------------|-------------------------------------|------------------------------|---------------------------|----------------------|----------------------|------|------|-----|-----|----|----|----|----|



For cross-connect use with 1803F (et al.)  
Digital Audio Snake Cables, see page 12.29.  
For Plenum version of 1800B, see 1801B.

\*500 ft. put-up available in Gray only. 5000 ft. put-up available in Violet only.  
The jacket and shield are bonded so both can be removed with automatic stripping equipment.

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

For additional selection of Belden® Audio Cables, refer to the Broadcast Cables section of this catalog.

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.



## Audio Cable

High-Strand Multi-conductor Audio Cables and  
Audio and Control Interconnect Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Outer Jacket Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|----------------------|----|----------------------|----|------------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch                   | mm | Inch       | mm |

**High-Strand Audio • 16 AWG** Stranded (65x34) Bare High-conductivity ETP Copper • Highly Stranded for Ultra Flexibility • Rip Cord

**High-Grade PVC Insulation • PVC Jacket** (Available in Blue, Green, White, Black or Gray)

|      |                                     |            |   |                 |        |         |      |      |      |     |      |     |      |      |
|------|-------------------------------------|------------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|
| 75°C | <b>5200UP</b><br><small>new</small> | NEC:<br>CM | 2 | Black,<br>White | U-500  | U-152.4 | 14.0 | 6.4  | .010 | .25 | .015 | .38 | .208 | 5.28 |
|      |                                     |            |   |                 | 500    | 152.4   | 15.5 | 7.0  |      |     |      |     |      |      |
|      |                                     |            |   |                 | U-1000 | U-304.8 | 27.0 | 12.3 |      |     |      |     |      |      |
|      |                                     |            |   |                 | 1000   | 304.8   | 28.0 | 12.7 |      |     |      |     |      |      |

Jacket sequentially marked at 2 ft. intervals.

|      |                                     |            |   |                                   |        |         |      |      |      |     |      |     |      |      |
|------|-------------------------------------|------------|---|-----------------------------------|--------|---------|------|------|------|-----|------|-----|------|------|
| 75°C | <b>5202UP</b><br><small>new</small> | NEC:<br>CM | 4 | Black,<br>White,<br>Red,<br>Green | U-500  | U-152.4 | 25.5 | 11.6 | .010 | .25 | .015 | .38 | .244 | 6.20 |
|      |                                     |            |   |                                   | 500    | 152.4   | 27.0 | 12.3 |      |     |      |     |      |      |
|      |                                     |            |   |                                   | U-1000 | U-304.8 | 51.0 | 23.2 |      |     |      |     |      |      |
|      |                                     |            |   |                                   | 1000   | 304.8   | 51.0 | 23.2 |      |     |      |     |      |      |

Jacket sequentially marked at 2 ft. intervals.

**High-Strand Audio • 14 AWG** Stranded (42x30) Bare High-conductivity ETP Copper • Highly Stranded for Ultra Flexibility • Rip Cord

**High-Grade PVC Insulation • PVC Jacket** (Available in Blue, Green, White, Black or Gray)

|      |                                     |             |   |                 |        |         |      |      |      |     |      |     |      |      |
|------|-------------------------------------|-------------|---|-----------------|--------|---------|------|------|------|-----|------|-----|------|------|
| 75°C | <b>5100UP</b><br><small>new</small> | NEC:<br>CL3 | 2 | Black,<br>White | U-500  | U-152.4 | 21.5 | 9.8  | .010 | .25 | .015 | .38 | .260 | 6.60 |
|      |                                     |             |   |                 | 500    | 152.4   | 23.5 | 10.7 |      |     |      |     |      |      |
|      |                                     |             |   |                 | U-1000 | U-304.8 | 42.0 | 19.1 |      |     |      |     |      |      |
|      |                                     |             |   |                 | 1000   | 304.8   | 43.0 | 19.5 |      |     |      |     |      |      |

Jacket sequentially marked at 2 ft. intervals.

**High-Strand Audio • 12 AWG** Stranded (65x30) Bare High-conductivity ETP Copper • Highly Stranded for Ultra Flexibility • Rip Cord

**High-Grade PVC Insulation • PVC Jacket** (Available in Blue, Green, White, Black or Gray)

|      |                                     |             |   |                 |       |         |      |      |      |     |      |     |      |      |
|------|-------------------------------------|-------------|---|-----------------|-------|---------|------|------|------|-----|------|-----|------|------|
| 75°C | <b>5000UP</b><br><small>new</small> | NEC:<br>CL3 | 2 | Black,<br>White | U-500 | U-152.4 | 31.5 | 14.3 | .010 | .25 | .018 | .46 | .302 | 7.67 |
|      |                                     |             |   |                 | 500   | 152.4   | 33.5 | 15.2 |      |     |      |     |      |      |
|      |                                     |             |   |                 | 1000  | 304.8   | 64.0 | 29.1 |      |     |      |     |      |      |

Jacket sequentially marked at 2 ft. intervals.

**High-Strand Audio • 10 AWG** Stranded (65x28) Bare High-conductivity ETP Copper • Highly Stranded for Ultra Flexibility

**High-Grade PVC Insulation • PVC Jacket** (Available in Blue, Green, White, Black or Gray)

|      |                                     |                                     |   |                 |      |       |      |      |      |     |      |     |      |      |
|------|-------------------------------------|-------------------------------------|---|-----------------|------|-------|------|------|------|-----|------|-----|------|------|
| 75°C | <b>5T00UP</b><br><small>new</small> | NEC:<br>CL2<br>Audio<br>Use<br>Only | 2 | Black,<br>White | 500  | 152.4 | 44.0 | 20.0 | .015 | .38 | .026 | .66 | .356 | 9.04 |
|      |                                     |                                     |   |                 | 1000 | 304.8 | 87.0 | 39.5 |      |     |      |     |      |      |

Jacket sequentially marked at 2 ft. intervals.

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard Lengths |   | Standard Unit Weight |    | Nom. DCR |        | Nominal OD |    | Nom. Imp.<br>of<br>Prop. | Nom. Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|----------------------|----|----------|--------|------------|----|--------------------------|--------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.              | m | Lbs.                 | kg | Cond.    | Shield | Inch       | mm |                          |                          | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**Audio and Control Interconnect • 22 AWG** Stranded (7x30) • Tinned Copper • Twisted Pairs • 24 AWG Stranded TC Drain Wire

**Polypropylene Insulation • Chrome PVC Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

|      |             |                          |   |                           |        |         |       |      |          |          |      |      |    |     |    |     |    |     |
|------|-------------|--------------------------|---|---------------------------|--------|---------|-------|------|----------|----------|------|------|----|-----|----|-----|----|-----|
| 60°C | <b>8723</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | Red/Black,<br>Green/White | 100    | 30.5    | 2.3   | 1.0  | 15.0Ω/M' | 16.6Ω/M' | .168 | 4.27 | 45 | 66% | 35 | 115 | 62 | 203 |
|      |             |                          |   |                           | U-500  | U-152.4 | 10.5  | 4.8  | 49.2Ω/km | 54.5Ω/km |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | 500    | 152.4   | 10.0  | 4.5  |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | U-1000 | U-304.8 | 20.0  | 9.1  |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | 1000   | 304.8   | 20.0  | 9.1  |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | 1640   | 499.9   | 32.8  | 14.9 |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | U-2000 | U-609.6 | 40.0  | 18.2 |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | 2000   | 609.6   | 40.0  | 18.2 |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | 3280   | 999.7   | 65.6  | 29.8 |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | 5000   | 1524.0  | 95.0  | 43.2 |          |          |      |      |    |     |    |     |    |     |
|      |             |                          |   |                           | 10000  | 3048.0  | 200.0 | 90.9 |          |          |      |      |    |     |    |     |    |     |

Pairs Individually Shielded with 100% Beldfoil®

For Plenum versions of 8723,  
see 88723, 87723 or 82723.

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors. \*\*Capacitance between one conductor and other conductors connected to shield.



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**1-800-527-0010**

## Audio, Alarm and Security Cable

Multi-conductor Cables for Residential, Light Commercial and Institutional Applications

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Outer Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------------|----|------------|----|
|             |          |                              |                    |               | ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                      | mm | Inch       | mm |

### Multi-conductor • 16 AWG Stranded (19x29) Bare Copper • Rip Cord

#### Non-Plenum • PVC Insulation • Gray PVC Jacket

|           |        |                                |   |               |                                |                                      |                              |                            |      |     |      |     |      |      |
|-----------|--------|--------------------------------|---|---------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|------|-----|------|-----|------|------|
| 300V 75°C | 5200UE | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 2 | Black,<br>Red | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 13.0<br>12.5<br>25.0<br>25.0 | 5.9<br>5.7<br>11.4<br>11.4 | .010 | .25 | .015 | .38 | .184 | 4.67 |
|-----------|--------|--------------------------------|---|---------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

|           |        |                                |   |                                   |                                |                                      |                              |                              |      |     |      |     |      |      |
|-----------|--------|--------------------------------|---|-----------------------------------|--------------------------------|--------------------------------------|------------------------------|------------------------------|------|-----|------|-----|------|------|
| 300V 75°C | 5202UE | NEC:<br>CMR<br>CEC:<br>CMG FT4 | 4 | Black,<br>Red,<br>White,<br>Green | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 23.0<br>23.5<br>46.0<br>51.0 | 10.5<br>10.7<br>20.9<br>23.2 | .010 | .25 | .015 | .38 | .216 | 5.49 |
|-----------|--------|--------------------------------|---|-----------------------------------|--------------------------------|--------------------------------------|------------------------------|------------------------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

#### Plenum • Flamarrest® Insulation • Natural Flamarrest Jacket

|           |        |                                |   |               |                       |                           |                      |                     |      |     |      |     |      |      |
|-----------|--------|--------------------------------|---|---------------|-----------------------|---------------------------|----------------------|---------------------|------|-----|------|-----|------|------|
| 300V 75°C | 6200UE | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | Black,<br>Red | 500<br>U-1000<br>1000 | 152.4<br>U-304.8<br>304.8 | 13.0<br>26.0<br>26.0 | 5.9<br>11.8<br>11.8 | .009 | .23 | .015 | .38 | .180 | 4.57 |
|-----------|--------|--------------------------------|---|---------------|-----------------------|---------------------------|----------------------|---------------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

### Multi-conductor • 14 AWG Stranded (19x27) Bare Copper • Rip Cord

#### Non-Plenum • PVC Insulation • Gray PVC Jacket

|           |        |              |   |                 |                       |                           |                      |                     |      |     |      |     |      |      |
|-----------|--------|--------------|---|-----------------|-----------------------|---------------------------|----------------------|---------------------|------|-----|------|-----|------|------|
| 300V 75°C | 5100UE | NEC:<br>CL3R | 2 | Black,<br>White | 500<br>U-1000<br>1000 | 152.4<br>U-304.8<br>304.8 | 19.5<br>38.0<br>39.0 | 8.9<br>17.3<br>17.7 | .014 | .36 | .015 | .38 | .234 | 5.94 |
|-----------|--------|--------------|---|-----------------|-----------------------|---------------------------|----------------------|---------------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

#### Plenum • Flamarrest Insulation • Natural Flamarrest Jacket

|           |        |              |   |                 |                       |                           |                      |                     |      |     |      |     |      |      |
|-----------|--------|--------------|---|-----------------|-----------------------|---------------------------|----------------------|---------------------|------|-----|------|-----|------|------|
| 150V 75°C | 6100UE | NEC:<br>CL2P | 2 | Black,<br>White | 500<br>U-1000<br>1000 | 152.4<br>U-304.8<br>304.8 | 20.0<br>39.0<br>40.0 | 9.1<br>17.7<br>18.2 | .011 | .28 | .015 | .38 | .222 | 5.64 |
|-----------|--------|--------------|---|-----------------|-----------------------|---------------------------|----------------------|---------------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

### Multi-conductor • 12 AWG Stranded (19x25) Bare Copper • Rip Cord

#### Non-Plenum • PVC Insulation • Gray PVC Jacket

|           |        |              |   |                 |             |                |              |              |      |     |      |     |      |      |
|-----------|--------|--------------|---|-----------------|-------------|----------------|--------------|--------------|------|-----|------|-----|------|------|
| 300V 75°C | 5000UE | NEC:<br>CL3R | 2 | Black,<br>White | 500<br>1000 | 152.4<br>304.8 | 28.5<br>57.0 | 13.0<br>25.9 | .014 | .36 | .015 | .38 | .268 | 6.81 |
|-----------|--------|--------------|---|-----------------|-------------|----------------|--------------|--------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

For additional selection of Belden® Security, Alarm and Communications Cables, refer to the New Generation® Cables section of this catalog.

## Alarm, Security and Audio Cable

Multi-conductor Cables for Residential, Light Commercial and Institutional Applications  
Coaxial and Composite Cables for Surveillance and CCTV Applications

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Cond. | Color<br>Code | Standard Lengths |   | Standard<br>Unit Weight |    | Insulation<br>Thickness |    | Outer Jacket<br>Thickness |    | Nominal OD |    |
|-------------|----------|------------------------------|--------------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------------|----|------------|----|
|             |          |                              |                    |               | Ft.              | m | Lbs.                    | kg | Inch                    | mm | Inch                      | mm | Inch       | mm |

### Multi-conductor • 22 AWG Stranded (7x30) Bare Copper

#### Polypropylene Insulation • PVC Jacket (Available in Beige, Brown, Orange, Yellow, Green, Blue, Violet, Gray or Natural)

|           |                                     |                              |   |               |                 |                    |            |            |      |     |      |     |      |      |
|-----------|-------------------------------------|------------------------------|---|---------------|-----------------|--------------------|------------|------------|------|-----|------|-----|------|------|
| 300V 75°C | <b>5500UG</b><br><small>new</small> | NEC:<br>CM<br>CEC:<br>CM FT1 | 2 | Black,<br>Red | U-500<br>U-1000 | U-152.4<br>U-304.8 | 5.0<br>9.0 | 2.3<br>4.1 | .006 | .15 | .015 | .38 | .114 | 2.90 |
|-----------|-------------------------------------|------------------------------|---|---------------|-----------------|--------------------|------------|------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

|           |                                      |                              |   |                                   |                     |                    |             |            |      |     |      |     |      |      |
|-----------|--------------------------------------|------------------------------|---|-----------------------------------|---------------------|--------------------|-------------|------------|------|-----|------|-----|------|------|
| 300V 75°C | <b>5502UG*</b><br><small>new</small> | NEC:<br>CM<br>CEC:<br>CM FT1 | 4 | Black,<br>Red,<br>White,<br>Green | U-500 *<br>U-1000 * | U-152.4<br>U-304.8 | 7.5<br>14.0 | 3.4<br>6.4 | .006 | .15 | .015 | .38 | .131 | 3.33 |
|-----------|--------------------------------------|------------------------------|---|-----------------------------------|---------------------|--------------------|-------------|------------|------|-----|------|-----|------|------|



\*5502UG not available in Orange.

Jacket sequentially marked at 2 ft. intervals.

### Multi-conductor • 18 AWG Stranded (7x26) Bare Copper

#### Polypropylene Insulation • PVC Jacket (Available in Black, Gray or Natural)

|           |                                     |                              |   |               |                 |                    |             |            |      |     |      |     |      |      |
|-----------|-------------------------------------|------------------------------|---|---------------|-----------------|--------------------|-------------|------------|------|-----|------|-----|------|------|
| 300V 75°C | <b>5300UG</b><br><small>new</small> | NEC:<br>CM<br>CEC:<br>CM FT1 | 2 | Black,<br>Red | U-500<br>U-1000 | U-152.4<br>U-304.8 | 8.5<br>16.0 | 3.9<br>7.3 | .006 | .15 | .015 | .38 | .148 | 3.76 |
|-----------|-------------------------------------|------------------------------|---|---------------|-----------------|--------------------|-------------|------------|------|-----|------|-----|------|------|



Jacket sequentially marked at 2 ft. intervals.

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard<br>Unit Weight |    | Nominal DCR |           | Nominal Core OD |    | Nominal OD |    | Nom.<br>Imp.<br>(Ω) |
|-------------|----------|------------------------------|------------------|---|-------------------------|----|-------------|-----------|-----------------|----|------------|----|---------------------|
|             |          |                              | Ft.              | m | Lbs.                    | kg | Conductor   | Shielding | Inch            | mm | Inch       | mm |                     |

### Coaxial • RG-59/U Type • 20 AWG Solid Bare Copper • Bare Copper Braid Shield (95% Coverage)

#### Foam Polyolefin Insulation • Black PVC Jacket

|      |               |                              |                                |                                      |                              |                            |                      |                     |      |      |      |      |    |
|------|---------------|------------------------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|----------------------|---------------------|------|------|------|------|----|
| 75°C | <b>543945</b> | NEC:<br>CM<br>CEC:<br>CM FT1 | U-500<br>500<br>U-1000<br>1000 | U-152.4<br>152.4<br>U-304.8<br>304.8 | 16.0<br>16.0<br>32.0<br>32.0 | 7.3<br>7.3<br>14.5<br>14.5 | 10.0Ω/M'<br>32.8Ω/km | 3.5Ω/M'<br>11.5Ω/km | .145 | 3.68 | .232 | 5.89 | 75 |
|------|---------------|------------------------------|--------------------------------|--------------------------------------|------------------------------|----------------------------|----------------------|---------------------|------|------|------|------|----|

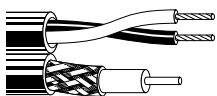


Jacket sequentially marked at 2 ft. intervals.

### Composite • RG-59/U Type, 20 AWG Coax Solid Bare Copper w/ 95% BC Braid Shield • 18 AWG UTP Stranded (7x26) Bare Copper

#### Foam Polyolefin Insulation (Coax) • PVC Insulation (Pair—Color Code: Red, Black) • Black PVC Jacket

|                               |               |                              |             |                |              |              |                                                                    |                     |                                      |              |              |               |    |
|-------------------------------|---------------|------------------------------|-------------|----------------|--------------|--------------|--------------------------------------------------------------------|---------------------|--------------------------------------|--------------|--------------|---------------|----|
| Siamese Configuration<br>75°C | <b>549945</b> | NEC:<br>CM<br>CEC:<br>CM FT1 | 500<br>1000 | 152.4<br>304.8 | 30.0<br>60.0 | 13.6<br>27.3 | Coax:<br>10.0Ω/M'<br>32.8Ω/km<br>Each Pair:<br>6.5Ω/M'<br>21.3Ω/km | 3.5Ω/M'<br>11.5Ω/km | Coax OD:<br>.145<br>Pair OD:<br>.066 | 3.68<br>1.68 | .232<br>.460 | 5.89<br>11.68 | 75 |
|-------------------------------|---------------|------------------------------|-------------|----------------|--------------|--------------|--------------------------------------------------------------------|---------------------|--------------------------------------|--------------|--------------|---------------|----|



Jacket sequentially marked at 2 ft. intervals.

BC = Bare Copper • DCR = DC Resistance • UTP = Unshielded Twisted Pair

For additional selection of Belden® Security and CCTV Cables, refer to the New Generation® and Coaxial Cables sections of this catalog.



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**1-800-527-0010**



# Industrial Automation and Control Cables

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 Interbus is a Phoenix Contact trademarks.  
 Seriplex is a Square D/Schneider AEG registered trademark.

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## Introduction

When it's time to specify cabling to meet the needs of your current or future control, power, video or data applications, Belden's wide range of industrial automation, industrial equipment and instrumentation/process control cable products offer the consistent quality, versatility and proven performance to meet your long-term requirements. They're expressly designed with multiple armoring and jacketing options to meet the harsh conditions found in the petrochemical, pharmaceutical, mining, power generation, wastewater treatment, pulp and paper, food processing and transportation industries.

To satisfy the demanding applications found in these industries, Belden employs industry-standard quality control procedures and the very latest manufacturing processes to ensure absolute cable consistency during every production run.

In addition, to further ensure you get the right cable for your needs, our staff of highly knowledgeable application and technical specialists stand ready to guide you through the cable selection process.

### Innovative Technology

When shielding is required, our innovative technology delivers maximum effectiveness. Belden's exclusive patented Beldfoil® design, with its aluminum/polyester foil, was the first shield to offer 100 percent cable protection against radiated emission and ingress at audio and radio frequencies.

### Intrinsically Safe Wiring

In accordance with NEC Article 504, intrinsically safe cables are colored blue for easy identification. Belden offers several industrial cables in intrinsically safe blue to meet your requirements for intrinsically safe wiring. Contact the NEC and/or your local inspector for specific guidelines.

### Custom Capabilities

UL PLTC and TC Listed constructions can be produced with XLPE (cross-linked polyethylene) insulation and/or a CPE Jacket. Other alternative insulating and jacketing materials are available for various hazardous environments with UL Listing.

Plus, most of our Industrial cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find an Industrial cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

### Armoring Capabilities

Belden also has the capability to protect electronic, instrumentation and control cables with interlocking armor and smooth or corrugated protective metal tapes.

#### To Specify Part Number:

|                     |            |                   |
|---------------------|------------|-------------------|
| <b>1</b>            | <b>2</b>   | <b>3456</b>       |
| Overall Jacket Type | Armor Type | Core Trade Number |

#### Overall Jacket Type    Armor Type

| Code | Material      | Code | Material           |
|------|---------------|------|--------------------|
| 1    | PVC           | 2    | Aluminum Interlock |
| 3    | CPE           | 3    | Steel Interlock    |
| 4    | TPE           |      |                    |
| 5    | HDPE          |      |                    |
| 6    | Oil Res II    |      |                    |
| 7    | Haloarrest® I |      |                    |

## PLC/DCS Cable Cross Reference Guide

| Part No. | Description |
|----------|-------------|
|----------|-------------|

### ABB/Bailey Controls

#### Infinet

**9880** Network Trunk Cable

**9463** Blue Hose® (Standard)

#### Masterpiece 200

**9880** Network Trunk Cable

**9907** Thin Network Trunk Cable

#### MICRO-DCI

**3105A** 1 Pair, RS-485

#### MICROLINK

**9860** Twinax, 16 AWG, 124 Ohm

#### Modcell

**3105A** 1 Pair, RS-485

### Allen-Bradley/Rockwell Automation

#### ControlNet™

See Protocol listings on page 15.4.

#### DeviceNet™

See Protocol listings on page 15.4.

#### DH

**9463** Blue Hose (Standard)

**9463F** Flexible Version (9463)

**129463** Aluminum Armor (9463)

**139463** Steel Armor (9463)

**189463** Cast Aluminum (9463)

**YR28826** Dual Version (9463)

**9463DB** Direct Burial (9463)

**YR29565** Various Color Jackets (9463)

**3072F** 600V TC Rated (9463)

**YR41101** Low Smoke, Halogen Free

**YR28764** Super Thick (PLTC)

**89463** FEP\* 200°C, Plenum

#### DH-485

**3074F** 600V Tray Cable

**3106A** 1.5 Pair, RS-485 (PLTC)

**9842** 2 Pair, RS-485

**YM39500** Flexible Version (3106A)

#### Longline Communications

**8723** Interface Cable

**88723** Plenum Version

### Cutler-Hammer/Westinghouse

#### IMPACC System

**YR29090** Proprietary Trunk Cable

#### I/Q System

**9463** Blue Hose (Standard)

\*Fluorinated Ethylene-propylene

ControlNet is a ControlNet International trademark.

DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.



By: **INTERSTATEWIRE**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

**1-800-527-0010**

**PLC/DCS Cable Cross Reference Guide** (continued)

| Part No.                                                         | Description             |
|------------------------------------------------------------------|-------------------------|
| <b>Emerson Process Management</b><br>(Fisher/Rosemount Controls) |                         |
| <b>Fieldbus</b> (Type SP50 ISA/IEC)                              |                         |
| See Protocol listings on page 15.4.                              |                         |
| <b>Hart</b>                                                      |                         |
| See Protocol listings on page 15.4.                              |                         |
| <b>Provox Plus</b>                                               |                         |
| 3094A                                                            | RG-11 Quad Shield PVC   |
| 3131A                                                            | RG-6 Quad Shield PVC    |
| <b>GE Fanuc</b>                                                  |                         |
| <b>Genius I/O System</b>                                         |                         |
| YR29841                                                          | PLTC Version            |
| 9182                                                             | Communications Bus      |
| 89182                                                            | Plenum Version          |
| <b>Honeywell</b>                                                 |                         |
| <b>Access 4000 System</b>                                        |                         |
| 9248                                                             | RG-6 PVC                |
| <b>Fieldbus</b> (Type SP50 ISA/IEC)                              |                         |
| See Protocol listings on page 15.4.                              |                         |
| <b>IPC 620 System I/O</b>                                        |                         |
| 9271                                                             | Twinax, 25 AWG, 124 Ohm |
| <b>IPC 620 System Serial Interface</b>                           |                         |
| 9729                                                             | Up to 4,000 ft.         |
| 9182                                                             | Up to 10,000 ft.        |
| 89182                                                            | Plenum                  |
| <b>3000 UCN &amp; LCN</b>                                        |                         |
| 3131A                                                            | RG-6 Quad Shield PVC    |
| 3094A                                                            | RG-11 Quad Shield PVC   |
| <b>Honeywell Microswitch Division</b>                            |                         |
| <b>Smart Distributed System</b>                                  |                         |
| 3086A                                                            | Mini                    |
| 3087A                                                            | Micro                   |
| <b>Invensys/Foxboro</b>                                          |                         |
| <b>Fieldbus</b> (Type SP50 ISA/IEC)                              |                         |
| See Protocol listings on page 15.4.                              |                         |
| <b>I/A Series Carrier Band</b>                                   |                         |
| 8233                                                             | Small Trunk             |
| 3095A                                                            | Plenum                  |
| 9290                                                             | Drop Cable              |
| <b>I/A Series Fieldbus</b>                                       |                         |
| 9207                                                             | Twinax                  |
| 89207                                                            | 200°C, Plenum           |
| 3073F                                                            | 600V Tray Cable         |
| <b>I/A Series Node Bus</b>                                       |                         |
| 9880                                                             | Trunk Cable             |
| 89880                                                            | Plenum Version          |

| Part No.                     | Description                            |
|------------------------------|----------------------------------------|
| <b>Limitorque</b>            |                                        |
| <b>DCC100</b>                |                                        |
| 3105A                        | Actuator Bus Cable, 1 Pair, RS-485     |
| <b>Matsushita</b>            |                                        |
| <b>FP Series C-NET</b>       |                                        |
| 9207                         | Twinax, 20 AWG, Stranded, 100 Ohm      |
| 9860                         | Twinax, 16 AWG, Solid, 124 Ohm         |
| <b>FP Series MEWNET-F</b>    |                                        |
| 9207                         | Twinax, 20 AWG, Stranded, 100 Ohm      |
| 9860                         | Twinax, 16 AWG, Solid, 124 Ohm         |
| <b>FP Series MEWNET-H</b>    |                                        |
| 9248                         | RG-6, 75 Ohm, 18 AWG                   |
| <b>FP Series MEWNET-TR</b>   |                                        |
| 9207                         | Twinax, 20 AWG, Stranded, 100 Ohm      |
| 9860                         | Twinax, 16 AWG, Solid, 124 Ohm         |
| <b>FP Series MEWNET-W</b>    |                                        |
| 9207                         | Twinax, 20 AWG, Stranded, 100 Ohm      |
| 9806                         | 4 Pair, RS-232, RS-422                 |
| <b>FP Series MEWNET-W2</b>   |                                        |
| 9207                         | Twinax, 20 AWG, Stranded, 100 Ohm      |
| 9860                         | Twinax, 16 AWG, Solid, 124 Ohm         |
| <b>FP Series TRNET</b>       |                                        |
| 9207                         | Twinax, 20 AWG, Stranded, 100 Ohm      |
| 9860                         | Twinax, 16 AWG, Solid, 124 Ohm         |
| <b>Modicon/Schneider AEG</b> |                                        |
| <b>Modbus</b>                |                                        |
| 8777                         | Modem Drop Cable, 22 AWG, 3 Pair       |
| 128777                       | Aluminum Armor (8777)                  |
| 138777                       | Steel Armor (8777)                     |
| 88777                        | FEP* 200°C, Plenum                     |
| <b>Modbus II</b>             |                                        |
| 3092A                        | RG-6 Quad Shield PVC                   |
| 3132A                        | RG-6 Quad Shield, 150°C, Plenum        |
| 3092F                        | RG-6 Quad Shield PVC, Flexible Version |
| 123092A                      | Aluminum Armor (3092A)                 |
| 133092A                      | Steel Armor (3092A)                    |
| <b>Modbus Plus</b>           |                                        |
| YM29560                      | 24 AWG, 1 Pair, RS-485                 |
| YC39000                      | Aluminum Armor (YM29560)               |
| YC39222                      | Steel Armor (YM29560)                  |
| YQ29258                      | 24 AWG, 1 Pair, 150°C, Plenum          |

| Part No.                                 | Description                            |
|------------------------------------------|----------------------------------------|
| <b>Modicon/Schneider AEG</b> (continued) |                                        |
| <b>Remote I/O</b>                        |                                        |
| 3092A                                    | RG-6 Quad Shield PVC                   |
| 3092F                                    | RG-6 Quad Shield PVC, Flexible Version |
| 123092A                                  | Aluminum Armor (3092A)                 |
| 133092A                                  | Steel Armor (3092A)                    |
| 123092F                                  | Aluminum Armor, RG-6 Quad Shield PVC   |
| 3132A                                    | RG-6 Quad Shield, 150°C, Plenum        |
| 3094A                                    | RG-11 Quad Shield PVC                  |
| 123094A                                  | Aluminum Armor (3094A)                 |
| 133094A                                  | Steel Armor (3094A)                    |
| 3095A                                    | RG-11 Quad Shield, 150°C, Plenum       |
| <b>Omron</b>                             |                                        |
| <b>SYSBUS-2</b>                          |                                        |
| 3073F                                    | 600V Tray Cable Twinax                 |
| <b>SYSMAC LINK</b>                       |                                        |
| 9231                                     | Coax                                   |
| <b>Phoenix Contact</b>                   |                                        |
| <b>DeviceNet™</b>                        |                                        |
| See Protocol listings on page 15.4.      |                                        |
| <b>Interbus®-S</b>                       |                                        |
| See Protocol listings on page 15.4.      |                                        |
| <b>Profibus DP FMS &amp; PA</b>          |                                        |
| See Protocol listings on page 15.4.      |                                        |
| <b>Reliance/A-B</b>                      |                                        |
| <b>Auto Max Distributed Power</b>        |                                        |
| MTB6002                                  | 2 Fiber Breakout                       |
| I100255                                  | 2 Fiber Loose Tube PVC                 |
| I100266                                  | 2 Fiber Loose Tube CPE                 |
| <b>R-Net</b>                             |                                        |
| 9259                                     | RG-59 PVC                              |
| 89259                                    | RG-59, 200°C, Plenum                   |
| <b>Rotork</b>                            |                                        |
| <b>Pakscan II E RS-485</b>               |                                        |
| 3105A                                    | 22 AWG, 1 Pair, RS-485                 |
| <b>Siemens/Moore</b>                     |                                        |
| <b>FMC</b> (Field Mountable Controller)  |                                        |
| 3105A                                    | 1 Pair, RS-485                         |
| 3106A                                    | 1.5 Pair, RS-485                       |
| 3107A                                    | 2 Pair, RS-485                         |
| 3108A                                    | 3 Pair, RS-485                         |
| 3109A                                    | 4 Pair, RS-485                         |

\*Fluorinated Ethylene-propylene

DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.  
Interbus is a Phoenix Contact trademark.



**PLC/DCS Cable Cross Reference Guide** *(continued)*

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**Siemens/Moore** *(continued)***Hiway**

9860 Network Trunk Cable

**MODULNET**

3094A RG-11 Quad Shield PVC

3131A RG-6 Quad Shield PVC

**Profibus DP & FMS** (Purple)

See Protocol listings on this page.

**Profibus PA** (Blue)

See Protocol listings on this page.

**SINEC Series H1**

9907 Thin Network Trunk Cable

9880 Network Trunk Cable

**SINEC Series H2B**

3131A RG-6 Quad Shield

3094A RG-11 Quad Shield

**SINEC Series L1**

3107A 2 Pair, RS-485

**SINEC Series L2**

3079A 300V Twinax

**Thicknet Ethernet Trunk**

9880 Network Trunk Cable

129880 Aluminum Interlocked Armor Trunk

139880 Steel Interlocked Armor Trunk

**Thinnet Ethernet Trunk**

9907 Thin Network Trunk Cable

**Smar****Fieldbus** (Type SP50 ISA/IEC)

See Protocol listings on this page.

**Profibus DP, FMS & PA**

See Protocol listings on this page.

**RS-485**

See Protocol listings on this page.

**Square D/Schneider AEG****FIP/Fieldbus**

3079A 22 AWG, 1 Pair, Shielded

123079A Aluminum Armor (3079A)

**Model 50, RS-422 Cable**

8760 18 AWG, 1 Pair, Shielded

128760 Aluminum Armor (8760)

**Passport I/O — I/O Net**

3105A 22 AWG, 1 Pair, RS-485

123105A Aluminum Armor (3105A)

3106A 22 AWG, 1.5 Pair, RS-485

123106A Aluminum Armor (3106A)

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**Square D/Schneider AEG** *(continued)***Seriplex®**

3124A CBL-1822-P20

3125A CBL-1622-P16

3126A CBL-162212-P16

123124A Aluminum Armor (3124A)

123125A Aluminum Armor (3125A)

123126A Aluminum Armor (3126A)

**SY/Net Network Trunk Cable**

9463 Blue Hose® (Standard)

9463F Flexible Version (9463)

129463 Aluminum Armor (9463)

139463 Steel Armor (9463)

189463 Cast Aluminum (9463)

YR28826 Dual Version (9463)

9463DB Direct Burial (9463)

YR29565 Various Color Jackets (9463)

**Industrial Communications Protocol****ControlNet™**

3092A RG-6 PVC Quad Shield

3092F RG-6 PVC Quad Shield,  
Flex Version, Aluminum BraidYR28890 RG-6 PVC Flex Version,  
Copper Braid

3093A RG-6 FEP\* Quad Shield, Plenum

123092A Aluminum Armor (3092A)

133092A Steel Armor (3092A)

**DeviceNet™**

3082A PVC (Thick)

3082F High-Flex (Thick)

3082K CL2 (Flat)

3082KP Auxiliary Power (Flat)

3083A CPE (Thick)

3084A PVC (Thin)

3084F High-Flex (Thin)

3085A CPE (Thin)

7895A CL2 PVC (Cable III Mid)

7896A CL1 PVC (Type V Trunk Cable)

7897A CL1 PVC (Thick)

7900A CL1 Unshielded (Drop Cable IV)

**Fieldbus** (Type SP50 ISA/IEC)

3076F Type A, H1 1900m (31.25K)

3077F Type B, H1 1200m (31.25K)

HSE Copper & Fiber (See *Cables for Industrial Ethernet* on page 15.5)

| Part No. | Description |
|----------|-------------|
|----------|-------------|

**Square D/Schneider AEG** *(continued)***SY/Net Network Trunk Cable**

3072F 600V TC Rated (9463)

YR41194 Low Smoke, Halogen Free

YR28764 Super Thick (PLTC)

89463 FEP\* 200°C, Plenum

**SY/Net TNIM Cable**

9272 20 AWG, 1 Pair, Shielded

89272 FEP\* 200°C, Plenum

**Yokogawa****Fieldbus** (Type SP50 ISA/IEC)

See Protocol listings on this page.

**Westinghouse****WDPF**

9292 RG-11 PVC

**Hart**

3105A 1 Pair, RS-485

3106A 1.5 Pair, RS-485

3107A 2 Pair, RS-485

**Interbus®-S**

3119A 18/3C, 24/3 Pair, Composite

3120A 24/3 Pair

**Profibus DP & FMS** (Purple)

3079A 300V Twinax

**Profibus PA** (Blue)

3076F 18 AWG, 2 Conductors, Type A

**RS-485**

9841 1 Pair

82841 1 Pair, Plenum

89841 1 Pair, Plenum, High-Temperature

9842 2 Pair

82842 2 Pair, Plenum

9843 3 Pair

9844 4 Pair

3105A 1 Pair (PLTC)

3106A 1.5 Pair (PLTC)

3107A 2 Pair (PLTC)

3108A 3 Pair (PLTC)

3109A 4 Pair (PLTC)

\*Fluorinated Ethylene-propylene

ControlNet is a ControlNet International trademark.

DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.

Interbus is a Phoenix Contact trademarks.

Seriplex is a Square D/Schneider AEG registered trademark.



By:

INTERSTATE WIRE  
INCORPORATEDTechnical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## Industrial Data Solutions® — Industrial Ethernet

### DataTuff® and MediaTuff® Twisted Pair and TrayOptic® Fiber Optic Cables — Overview

The reliability of your industrial Ethernet network depends on the cable infrastructure. Data transmission errors can lead to interruptions in critical control functions resulting in lost production time and even safety issues. Belden's family of industrial Ethernet cables is designed to withstand the rigors of industrial environments. Whether it's exposure to oil and sunlight, temperature variation, abrasion and crushing, or the presence of electromagnetic interference (EMI) or radio frequency interference (RFI), turn to Belden for the solution.

Belden offers an extensive line of high performance cables in both copper constructions with DataTuff cables as well as fiber optic designs with TrayOptic cables.

#### Performance Assurance from Blue Hose® to Industrial Ethernet

To assist you in achieving optimum network performance, Belden has built quality and reliability into each cable it manufactures. Decades of leadership and experience in supplying reliable high-end cable solutions, such as Blue Hose, to industrial networks and control systems are combined to give you industrial Ethernet cables that perform to maximum network capability.

Our dedication to quality manufacturing practices and processes assures consistent products of uncompromising quality.

#### Installable Performance™ with Patented Bonded-Pair Technology

Belden's Bonded-Pair versions of DataTuff cables are unique in the industry to give you an Installable Performance advantage. This patented design yields superior electrical performance even after the

effects and stresses of pulling, twisting and bending during typical installations. This performance advantage is achieved by bonding the individual insulated conductors along their longitudinal axes, resulting in uniform conductor-to-conductor spacing and the elimination of gaps between conductors that can occur during installation. This is a critical construction feature because non-uniform conductor spacing and gaps change the physical characteristics of the cable such that the electrical performance of the cable suffers. Only Bonded-Pair cables deliver the electrical integrity you demand.

#### TrayOptic Cables

Belden® TrayOptic cables are a line of indoor/outdoor fiber optic cables designed to meet the demanding requirements of industrial applications. When the installation demands the combination of sophisticated fiber optic technology and rugged durability, turn to Belden.

#### Cables for Industrial Ethernet (IEEE 802.3 and TIA/EIA-568-B)

| Part No. | Jacket Material | No. of Fibers |
|----------|-----------------|---------------|
|----------|-----------------|---------------|

**Fiber** (62.5/125/245 Micron)  
Multimode • PVC or CPE Jackets

| Riser (NEC/CEC OFNR FT4) |     |    |
|--------------------------|-----|----|
| I100255                  | PVC | 2  |
| I100266                  | CPE | 2  |
| I100455                  | PVC | 4  |
| I100466                  | CPE | 4  |
| I100655                  | PVC | 6  |
| I100666                  | CPE | 6  |
| I400855                  | PVC | 8  |
| I400866                  | CPE | 8  |
| I601055                  | PVC | 10 |
| I601255                  | PVC | 12 |
| I601266                  | CPE | 12 |

| Tray (NEC/CEC OFN FT1) |     |    |
|------------------------|-----|----|
| I601855                | PVC | 18 |
| I601866                | CPE | 18 |
| I602455                | PVC | 24 |
| I602466                | CPE | 24 |

50 Micron and Single-mode fiber available upon request.

| Part No. | Description | Shielding | Jacket |
|----------|-------------|-----------|--------|
|----------|-------------|-----------|--------|

#### Copper • Twisted Pairs • Heavy-duty Sunlight and Oil-resistant Jackets

| Category 5e |              |              |                                    |
|-------------|--------------|--------------|------------------------------------|
| 7923A       | Bonded-Pairs | Unshielded   |                                    |
| 7929A       | Bonded-Pairs | Foil         |                                    |
| 7921A       | Bonded-Pairs | Foil + Braid |                                    |
| 11700A      | Bonded-Pairs | Unshielded   | Upjacketed                         |
| 121700A     | Bonded-Pairs | Unshielded   | Armored                            |
| 7924A       | Bonded-Pairs | Unshielded   | Flexible                           |
| 7928A       | Bonded-Pairs | Unshielded   | Hi & Low Temp, Oil Res II, Gas Res |
| 7918A       | Unbonded     | Unshielded   |                                    |
| 7919A       | Unbonded     | Foil         |                                    |
| Category 6  |              |              |                                    |
| 11872A      | Bonded-Pairs | Unshielded   | Upjacketed                         |
| 121872A     | Bonded-Pairs | Unshielded   | Armored                            |





# Industrial Data Solutions® — Industrial Ethernet

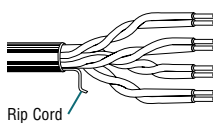
Category 5e DataTuff® Twisted Pair Cables

Heavy-Duty Sunlight and Oil-Resistant Jackets

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Nom. Insulated<br>Conductor OD |    | Nominal<br>OD |    | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|--------------------------------|----|---------------|----|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                           | mm | Inch          | mm |                |                                 |                              |                                      |                                         |                                 |                    |

**24 AWG Bonded-Pairs** Solid Bare Copper • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • .030" Industrial Grade Black PVC Jacket**

|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      |       |      |      |      |      |        |      |
|--------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|---|------|-------|------|------|------|------|------|------|-------|------|------|------|------|--------|------|
|  <p>Rip Cord</p> | <b>7923A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMR FT4 | 4 | 1000 | 304.8 | 28.0 | 12.7 | .038 | .97  | .230 | 5.94 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|                                                                                                  |                                    |                                |   | 2000 | 609.6 | 54.0 | 24.5 | x    | x    |      |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|                                                                                                  |                                    |                                |   |      |       |      |      | .075 | 1.91 |      |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±18 | 19.0 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
|                                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |

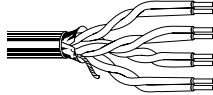
RJ-45 Compatible • -25°C Cold Bend

U.S. Patents 5,606,151 and 5,734,126

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

**24 AWG Bonded-Pairs** Solid Bare Copper • Overall Beldfoil® Shield • Drain Wire\* • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • .030" Industrial Grade Black PVC Jacket**

|                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      |       |      |      |      |      |        |      |
|----------------------------------------------------------------------------------|------------------------------------|--------------------------------|---|------|-------|------|------|------|------|------|------|-------|------|------|------|------|--------|------|
|  | <b>7929A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMR FT4 | 4 | 1000 | 304.8 | 36.0 | 16.3 | .045 | 1.14 | .265 | 6.73 | 1     | 2.0  | 62.3 | 60.3 | 60.8 | 100±15 | 20.0 |
|                                                                                  |                                    |                                |   | 2000 | 609.6 | 70.0 | 31.8 | x    | x    |      |      | 4     | 4.1  | 53.3 | 49.2 | 48.7 | 100±15 | 23.0 |
|                                                                                  |                                    |                                |   |      |       |      |      | .088 | 2.24 |      |      | 10    | 6.5  | 47.3 | 41.8 | 40.8 | 100±15 | 25.0 |
|                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 31.25 | 11.7 | 39.9 | 28.2 | 30.9 | 100±15 | 23.6 |
|                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 62.5  | 17.0 | 35.4 | 18.4 | 24.8 | 100±15 | 21.5 |
|                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 100   | 22.0 | 32.3 | 10.3 | 20.8 | 100±15 | 20.1 |
|                                                                                  |                                    |                                |   |      |       |      |      |      |      |      |      | 200   | 32.4 | 27.8 | 1.0  | 14.7 | 100±25 | 15.0 |

RJ-45 Compatible • -25°C Cold Bend

U.S. Patents 5,606,151 and 5,734,126

Shield is bonded to jacket inner wall for electrical stability.

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

**24 AWG Bonded-Pairs** Solid Bare Copper • Overall Beldfoil + 70% TC Braid • Solid Spiral Drain Wire • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • .030" Industrial Grade Black PVC Jacket**

|                                                                                    |                                    |                                |   |      |       |       |      |      |      |      |      |       |      |      |      |      |        |      |
|------------------------------------------------------------------------------------|------------------------------------|--------------------------------|---|------|-------|-------|------|------|------|------|------|-------|------|------|------|------|--------|------|
|  | <b>7921A</b><br><small>new</small> | NEC:<br>CMR<br>CEC:<br>CMR FT4 | 4 | 1000 | 304.8 | 55.0  | 24.9 | .047 | 1.19 | .330 | 8.38 | 1     | 2.0  | 62.3 | 60.3 | 60.8 | 100±15 | 20.0 |
|                                                                                    |                                    |                                |   | 2000 | 609.6 | 108.0 | 49.0 | x    | x    |      |      | 4     | 4.1  | 53.3 | 49.2 | 48.7 | 100±15 | 23.0 |
|                                                                                    |                                    |                                |   |      |       |       |      | .091 | 2.31 |      |      | 10    | 6.5  | 47.3 | 41.8 | 40.8 | 100±15 | 25.0 |
|                                                                                    |                                    |                                |   |      |       |       |      |      |      |      |      | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|                                                                                    |                                    |                                |   |      |       |       |      |      |      |      |      | 31.25 | 11.7 | 39.9 | 28.2 | 30.9 | 100±15 | 23.6 |
|                                                                                    |                                    |                                |   |      |       |       |      |      |      |      |      | 62.5  | 17.0 | 35.4 | 18.4 | 24.8 | 100±15 | 21.5 |
|                                                                                    |                                    |                                |   |      |       |       |      |      |      |      |      | 100   | 22.0 | 32.3 | 10.3 | 20.8 | 100±15 | 20.1 |

-25°C Cold Bend

U.S. Patents 5,606,151 and 5,734,126

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper

\*Drain wire is 24 AWG stranded tinned copper.

## Color Codes: DataTuff

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



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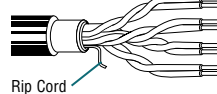
# Industrial Data Solutions® — Industrial Ethernet

## Category 5e DataTuff® Twisted Pair Cables

### Heavy-Duty Sunlight and Oil-Resistant Jackets

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Nom. Insulated<br>Conductor OD |    | Nominal<br>OD |    | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|--------------------------------|----|---------------|----|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                           | mm | Inch          | mm |                |                                 |                              |                                      |                                         |                                 |                    |

**24 AWG Bonded-Pairs** Solid Bare Copper • Rip Cord • See Color Code Chart (below)

| Upjacketed • Polyolefin Insulation • PVC Inner Jacket • .035" Industrial Grade Black or Gray PVC Outer Jacket |               |         |   |      |       |       |      |      |      |      |      |       |      |      |      |      |        |      |  |  |
|---------------------------------------------------------------------------------------------------------------|---------------|---------|---|------|-------|-------|------|------|------|------|------|-------|------|------|------|------|--------|------|--|--|
|                              | <b>11700A</b> | NEC:    | 4 | 1000 | 304.8 | 39.0  | 17.7 | .038 | .97  | .285 | 7.24 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |  |  |
|                                                                                                               |               | CMR     |   | 3000 | 914.4 | 117.0 | 53.2 | x    | x    |      |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |  |  |
|                                                                                                               |               | CEC:    |   |      |       |       |      | .075 | 1.91 |      |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |  |  |
|                                                                                                               |               | CMR FT4 |   |      |       |       |      |      |      |      |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±18 | 19.0 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |  |  |
|                                                                                                               |               |         |   |      |       |       |      |      |      |      |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |  |  |

Rip Cord

RJ-45 Compatible • -25°C Cold Bend  
U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e

RJ-45 Compatible • -25°C Cold Bend  
U.S. Patents 5,606,151 and 5,734,126

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

**24 AWG Bonded-Pairs** Solid Bare Copper • Mylar® Wrap • Rip Cord • See Color Code Chart (below)

| Interlocked AL Armor • Polyolefin Insulation • PVC Inner Jacket • .045" Industrial Grade Black or Gray PVC Outer Jacket |                |         |   |      |       |       |       |      |      |      |       |       |      |      |      |      |        |      |  |  |
|-------------------------------------------------------------------------------------------------------------------------|----------------|---------|---|------|-------|-------|-------|------|------|------|-------|-------|------|------|------|------|--------|------|--|--|
|                                        | <b>121700A</b> | NEC:    | 4 | 1000 | 304.8 | 155.0 | 70.5  | .038 | .97  | .530 | 13.46 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |  |  |
|                                                                                                                         |                | CMG     |   | 3000 | 914.4 | 465.0 | 211.4 | x    | x    |      |       | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |  |  |
|                                                                                                                         |                | CEC:    |   |      |       |       |       | .075 | 1.91 |      |       | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |  |  |
|                                                                                                                         |                | HL      |   |      |       |       |       |      |      |      |       | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |  |  |
|                                                                                                                         |                | CMG FT4 |   |      |       |       |       |      |      |      |       | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±18 | 19.0 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |  |  |
|                                                                                                                         |                |         |   |      |       |       |       |      |      |      |       | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |  |  |

Rip Cord

RJ-45 Compatible • -25°C Cold Bend  
U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 1 meter intervals • Verified to TIA/EIA 568 B.2, Category 5e

RJ-45 Compatible • -25°C Cold Bend  
U.S. Patents 5,606,151 and 5,734,126

Jacket sequentially marked at 1 meter intervals. • Verified to TIA/EIA-568-B.2, Category 5e

**24 AWG Bonded-Pairs** Stranded (7x32) Tinned Copper • See Color Code Chart (below)

| Non-Plenum • Polyolefin Insulation • .030" Industrial Grade Black PVC Jacket                            |                                 |         |   |      |       |      |      |      |      |      |      |       |      |      |      |      |        |      |
|---------------------------------------------------------------------------------------------------------|---------------------------------|---------|---|------|-------|------|------|------|------|------|------|-------|------|------|------|------|--------|------|
| <div>Flexible</div>  | <div>7924A</div> <div>new</div> | NEC:    | 4 | 1000 | 304.8 | 30.0 | 13.6 | .039 | .99  | .242 | 6.15 | 1     | 2.4  | 65.3 | 62.9 | 60.8 | 100±12 | 20.0 |
|                                                                                                         |                                 | CMR     |   | 2000 | 609.6 | 58.0 | 26.3 | x    | x    |      |      | 4     | 4.8  | 56.3 | 51.5 | 48.7 | 100±12 | 23.0 |
|                                                                                                         |                                 | CEC:    |   |      |       |      |      | .077 | 1.96 |      |      | 8     | 6.8  | 51.8 | 45.0 | 42.7 | 100±12 | 24.5 |
|                                                                                                         |                                 | CMR FT4 |   |      |       |      |      |      |      |      |      | 10    | 7.7  | 50.3 | 42.6 | 40.8 | 100±12 | 25.0 |
|                                                                                                         |                                 |         |   |      |       |      |      |      |      |      |      | 16    | 9.7  | 47.3 | 37.5 | 36.7 | 100±12 | 25.0 |
|                                                                                                         |                                 |         |   |      |       |      |      |      |      |      |      | 25    | 12.4 | 44.3 | 31.9 | 32.8 | 100±15 | 24.3 |
|                                                                                                         |                                 |         |   |      |       |      |      |      |      |      |      | 31.25 | 13.9 | 42.9 | 29.0 | 30.9 | 100±15 | 23.6 |
|                                                                                                         |                                 |         |   |      |       |      |      |      |      |      |      | 62.5  | 20.2 | 38.4 | 18.3 | 24.8 | 100±15 | 21.5 |
|                                                                                                         |                                 |         |   |      |       |      |      |      |      |      |      | 100   | 26.0 | 35.3 | 9.2  | 20.8 | 100±15 | 20.1 |
|                                                                                                         |                                 |         |   |      |       |      |      |      |      |      |      | 155   | 33.2 | 32.5 | —    | 16.9 | 100±18 | 19.0 |
| RJ-45 Compatible • -25°C Cold Bend                                                                      |                                 |         |   |      |       |      |      |      |      |      |      | 200   | 38.4 | 30.8 | —    | 14.7 | 100±18 | 19.0 |
| U.S. Patents 5,606,151; 5,734,126 and 5,763,823                                                         |                                 |         |   |      |       |      |      |      |      |      |      | 250   | 43.7 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
| Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e    |                                 |         |   |      |       |      |      |      |      |      |      | 350   | 53.2 | 27.2 | —    | 9.9  | 100±22 | 17.0 |

RJ-45 Compatible • -25°C Cold Bend

U.S. Patents 5,606,151; 5,734,126 and 5,763,823

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • AL = Aluminum • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss

### Color Codes: DataTuff

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

Mylar is a DuPont trademark.



## Industrial Data Solutions® — Industrial Ethernet

Category 5e DataTuff® Twisted Pair Cables

Heavy-Duty Sunlight and Oil-Resistant Jackets

| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Standard Lengths |   | Standard Unit Wt. |    | Nom. Insulated Conductor OD |    | Nominal OD |    | Freq. (MHz) | Max. Atten. (dB/100m) | Min. PSUM NEXT (dB) | Min. PSUM ACR (dB/100m) | Min. PSUM ELFEXT (dB/100m) | Input Imped. (Ω) | Min. RL (dB) |
|-------------|----------|------------------------|--------------|------------------|---|-------------------|----|-----------------------------|----|------------|----|-------------|-----------------------|---------------------|-------------------------|----------------------------|------------------|--------------|
|             |          |                        |              | Ft.              | m | Lbs.              | kg | Inch                        | mm | Inch       | mm |             |                       |                     |                         |                            |                  |              |

**24 AWG Bonded-Pairs** Solid Bare Copper • See Color Code Chart (below)

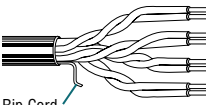
| FEP Insulation • Black FEP Jacket                                                                     |                 |            |             |   |      |       |      |      |      |      |      |      |       |      |      |      |      |        |      |
|-------------------------------------------------------------------------------------------------------|-----------------|------------|-------------|---|------|-------|------|------|------|------|------|------|-------|------|------|------|------|--------|------|
|                       | High & Low Temp | 7928A      | NEC:        | 4 | 1000 | 304.8 | 24.0 | 10.9 | .036 | .91  | .187 | 4.75 | 1     | 2.0  | 65.3 | 63.3 | 60.8 | 100±12 | 20.0 |
|                                                                                                       | Oil Res I & II  | <b>new</b> | Limited     |   |      |       |      |      | x    | x    |      |      | 4     | 4.0  | 56.3 | 52.3 | 48.7 | 100±12 | 23.0 |
|                                                                                                       | Gas Res         |            | Combustible |   |      |       |      |      | .071 | 1.80 |      |      | 8     | 5.7  | 51.8 | 46.1 | 42.7 | 100±12 | 24.5 |
|                                                                                                       |                 |            | FHC 25/50   |   |      |       |      |      |      |      |      |      | 10    | 6.4  | 50.3 | 43.9 | 40.8 | 100±12 | 25.0 |
|                                                                                                       |                 |            | CMP         |   |      |       |      |      |      |      |      |      | 16    | 8.1  | 47.3 | 39.1 | 36.7 | 100±12 | 25.0 |
|                                                                                                       |                 |            | CEC:        |   |      |       |      |      |      |      |      |      | 25    | 10.3 | 44.3 | 34.1 | 32.8 | 100±15 | 24.3 |
|                                                                                                       |                 |            | CMP FT6     |   |      |       |      |      |      |      |      |      | 31.25 | 11.6 | 42.9 | 31.3 | 30.9 | 100±15 | 23.6 |
|                                                                                                       |                 |            |             |   |      |       |      |      |      |      |      |      | 62.5  | 16.8 | 38.4 | 21.6 | 24.8 | 100±15 | 21.5 |
|                                                                                                       |                 |            |             |   |      |       |      |      |      |      |      |      | 100   | 21.7 | 35.3 | 17.1 | 20.8 | 100±15 | 20.1 |
|                                                                                                       |                 |            |             |   |      |       |      |      |      |      |      |      | 155   | 27.7 | 32.5 | 4.7  | 16.9 | 100±18 | 19.0 |
| RJ-45 Compatible • -70°C                                                                              |                 |            |             |   |      |       |      |      |      |      |      |      | 200   | 32.0 | 30.8 | 3.0  | 14.7 | 100±18 | 19.0 |
| U.S. Patents 5,606,151 and 5,734,126                                                                  |                 |            |             |   |      |       |      |      |      |      |      |      | 250   | 36.4 | 29.3 | —    | 12.8 | 100±20 | 18.0 |
| Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e |                 |            |             |   |      |       |      |      |      |      |      |      | 350   | 44.3 | 27.2 | —    | 9.9  | 100±22 | 17.0 |

RJ-45 Compatible • -70°C

U.S. Patents 5,606,151 and 5,734,126

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

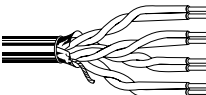
**24 AWG** Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)

| Non-Plenum • Polyolefin Insulation • .030" Industrial Grade Black PVC Jacket     |                     |         |   |      |       |      |      |      |     |      |      |       |      |      |      |      |        |      |
|----------------------------------------------------------------------------------|---------------------|---------|---|------|-------|------|------|------|-----|------|------|-------|------|------|------|------|--------|------|
|  | 7918A<br><b>new</b> | NEC:    | 4 | 1000 | 304.8 | 28.0 | 12.7 | .037 | .94 | .230 | 5.84 | 1     | 2.0  | 62.3 | 60.3 | 60.8 | 100±15 | 20.0 |
|                                                                                  |                     | CMR     |   | 2000 | 609.6 | 54.0 | 24.5 |      |     |      |      | 4     | 4.1  | 53.3 | 49.2 | 48.7 | 100±15 | 23.0 |
|                                                                                  |                     | CEC:    |   |      |       |      |      |      |     |      |      | 10    | 6.5  | 47.3 | 41.8 | 40.8 | 100±15 | 25.0 |
|                                                                                  |                     | CMR FT4 |   |      |       |      |      |      |     |      |      | 16    | 8.2  | 44.3 | 36.0 | 36.7 | 100±15 | 25.0 |
|                                                                                  |                     |         |   |      |       |      |      |      |     |      |      | 31.25 | 11.7 | 39.9 | 28.2 | 30.9 | 100±15 | 23.6 |
|                                                                                  |                     |         |   |      |       |      |      |      |     |      |      | 62.5  | 17.0 | 35.4 | 18.4 | 24.8 | 100±15 | 21.5 |
|                                                                                  |                     |         |   |      |       |      |      |      |     |      |      | 100   | 22.0 | 32.3 | 10.3 | 20.8 | 100±15 | 20.1 |
|                                                                                  |                     |         |   |      |       |      |      |      |     |      |      | 200   | 32.4 | 27.8 | 1.0  | 14.7 | 100±25 | 15.0 |

RJ-45 Compatible • -25°C Cold Bend

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

**24 AWG** Solid Bare Copper • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire\* • See Color Code Chart (below)

| Non-Plenum • Polyolefin Insulation • .030" Industrial Grade Black PVC Jacket                                      |                                                                             |   |      |       |      |      |      |      |      |      |   |       |      |      |      |        |        |      |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---|------|-------|------|------|------|------|------|------|---|-------|------|------|------|--------|--------|------|
| <div>Shielded</div> <div></div> | <div>7919A</div> <div>new</div> <div>NEC: CMR</div> <div>CEC: CMR FT4</div> | 4 | 1000 | 304.8 | 36.0 | 16.3 | .042 | 1.07 | .265 | 6.73 | 1 | 2.0   | 62.3 | 60.3 | 60.8 | 100±15 | 20.0   |      |
|                                                                                                                   |                                                                             |   | 2000 | 609.6 | 70.0 | 31.8 |      |      |      |      |   | 4     | 4.1  | 53.3 | 49.2 | 48.7   | 100±15 | 23.0 |
|                                                                                                                   |                                                                             |   |      |       |      |      |      |      |      |      |   | 10    | 6.5  | 47.3 | 41.8 | 40.8   | 100±15 | 25.0 |
|                                                                                                                   |                                                                             |   |      |       |      |      |      |      |      |      |   | 16    | 8.2  | 44.3 | 36.0 | 36.7   | 100±15 | 25.0 |
|                                                                                                                   |                                                                             |   |      |       |      |      |      |      |      |      |   | 31.25 | 11.7 | 39.9 | 28.2 | 30.9   | 100±15 | 23.6 |
|                                                                                                                   |                                                                             |   |      |       |      |      |      |      |      |      |   | 62.5  | 17.0 | 35.4 | 18.4 | 24.8   | 100±15 | 21.5 |
|                                                                                                                   |                                                                             |   |      |       |      |      |      |      |      |      |   | 100   | 22.0 | 32.3 | 10.3 | 20.8   | 100±15 | 20.1 |
|                                                                                                                   |                                                                             |   |      |       |      |      |      |      |      |      |   | 200   | 32.4 | 27.8 | 1.0  | 14.7   | 100±25 | 15.0 |

RJ-45 Compatible • -25°C Cold Bend

Shield is bonded to jacket inner wall for electrical stability.

\*Drain wire is 24 AWG stranded tinned copper.

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss

### Color Codes: DataTuff

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |



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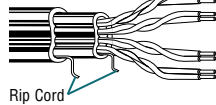
# Industrial Data Solutions® — Industrial Ethernet

## Category 6 MediaTuff® Twisted Pair Cables Heavy-Duty Jackets

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Standard Lengths |   | Standard<br>Unit Wt. |    | Nom. Insulated<br>Cond. OD |    | Nominal<br>Core OD |    | Nominal<br>OD |    | Freq.<br>(MHz) | Max.<br>Atten.<br>(dB/<br>100m) | Min.<br>PSUM<br>NEXT<br>(dB) | Min.<br>PSUM<br>ACR<br>(dB/<br>100m) | Min.<br>PSUM<br>ELFEXT<br>(dB/<br>100m) | Input<br>Imped.<br>( $\Omega$ ) | Min.<br>RL<br>(dB) |
|-------------|----------|------------------------------|--------------------|------------------|---|----------------------|----|----------------------------|----|--------------------|----|---------------|----|----------------|---------------------------------|------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|--------------------|
|             |          |                              |                    | Ft.              | m | Lbs.                 | kg | Inch                       | mm | Inch               | mm | Inch          | mm |                |                                 |                              |                                      |                                         |                                 |                    |

### 23 AWG Bonded-Pairs Solid Bare Copper • Rip Cord • See Color Code Chart (below)

#### Upjacketed • Polyolefin Insulation • PVC Inner Jacket • .035" Industrial Grade Black or Gray PVC Jacket

|                                                                                                   |        |                                   |   |      |       |      |      |                   |                   |                   |                   |                   |                    |                                                                                        |                                                                                                  |                                                                                                      |                                                                              |                                                                                                      |                                                                                                                                |                                                                                                      |
|---------------------------------------------------------------------------------------------------|--------|-----------------------------------|---|------|-------|------|------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  <p>Rip Cord</p> | 11872A | NEC:<br>CMR<br>CEC:<br>CMR<br>FT4 | 4 | 1000 | 304.8 | 66.0 | 30.0 | .041<br>x<br>.080 | 1.04<br>x<br>2.03 | .365<br>x<br>.165 | 9.27<br>x<br>4.19 | .475<br>x<br>.265 | 12.07<br>x<br>6.73 | 1<br>4<br>10<br>16<br>31.25<br>62.5<br>100<br>155<br>200<br>310<br>350<br>400*<br>500* | 1.9<br>3.7<br>5.9<br>7.5<br>10.6<br>15.4<br>19.8<br>25.1<br>29.0<br>31.7<br>39.8<br>43.0<br>49.0 | 72.3<br>63.3<br>57.3<br>54.3<br>49.9<br>45.4<br>42.3<br>39.5<br>37.9<br>34.9<br>34.2<br>33.3<br>31.8 | 70<br>59<br>51<br>46<br>39<br>30<br>25<br>14<br>10<br>—<br>13.9<br>12.7<br>— | 64.8<br>52.7<br>44.8<br>40.7<br>34.9<br>28.8<br>24.8<br>20.9<br>18.7<br>14.9<br>13.9<br>12.7<br>10.8 | 100±12<br>100±12<br>100±12<br>100±12<br>100±15<br>100±15<br>100±15<br>100±15<br>100±15<br>100±20<br>100±22<br>100±25<br>100±25 | 20.0<br>23.0<br>25.0<br>25.0<br>23.6<br>21.5<br>21.0<br>21.0<br>21.0<br>18.0<br>17.0<br>14.0<br>14.0 |
|---------------------------------------------------------------------------------------------------|--------|-----------------------------------|---|------|-------|------|------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

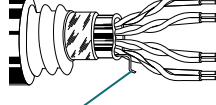
RJ-45 Compatible • -25°C Cold Bend

U.S. Patents 5,606,151, 5,734,126 and 5,821,467

Jacket sequentially marked at 2 ft. intervals. • Verified to TIA/EIA-568-B.2-1, Category 6

### 23 AWG Bonded-Pairs Solid Bare Copper • Mylar® Wrap • Rip Cord • See Color Code Chart (below)

#### Interlocked AL Armor • Polyolefin Insulation • PVC Inner Jacket • .055" Industrial Grade Black or Gray PVC Outer Jacket

|                                                                                                   |         |                                      |   |      |       |       |       |                   |                   |                   |                   |                    |                                                                                        |                                                                                                  |                                                                                                      |                                                                              |                                                                                                      |                                                                                                                                |                                                                                                      |
|---------------------------------------------------------------------------------------------------|---------|--------------------------------------|---|------|-------|-------|-------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  <p>Rip Cord</p> | 121872A | NEC:<br>CMG<br>CEC:<br>HL<br>CMG FT4 | 4 | 1000 | 304.8 | 293.0 | 133.2 | .041<br>x<br>.080 | 1.04<br>x<br>2.03 | .365<br>x<br>.165 | 9.27<br>x<br>4.19 | .684<br>x<br>17.37 | 1<br>4<br>10<br>16<br>31.25<br>62.5<br>100<br>155<br>200<br>310<br>350<br>400*<br>500* | 1.9<br>3.7<br>5.9<br>7.5<br>10.6<br>15.4<br>19.8<br>25.1<br>29.0<br>31.7<br>39.8<br>43.0<br>49.0 | 72.3<br>63.3<br>57.3<br>54.3<br>49.9<br>45.4<br>42.3<br>39.5<br>37.9<br>34.9<br>34.2<br>33.3<br>31.8 | 70<br>59<br>51<br>46<br>39<br>30<br>25<br>14<br>10<br>—<br>13.9<br>12.7<br>— | 64.8<br>52.7<br>44.8<br>40.7<br>34.9<br>28.8<br>24.8<br>20.9<br>18.7<br>14.9<br>13.9<br>12.7<br>10.8 | 100±12<br>100±12<br>100±12<br>100±12<br>100±15<br>100±15<br>100±15<br>100±15<br>100±15<br>100±20<br>100±22<br>100±25<br>100±25 | 20.0<br>23.0<br>25.0<br>25.0<br>23.6<br>21.5<br>21.0<br>21.0<br>21.0<br>18.0<br>17.0<br>14.0<br>14.0 |
|---------------------------------------------------------------------------------------------------|---------|--------------------------------------|---|------|-------|-------|-------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

RJ-45 Compatible • -40°C

U.S. Patents 5,606,151, 5,734,126 and 5,821,467

Jacket sequentially marked at 1 meter intervals. • Verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • AL = Aluminum • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss

\*Values provided for information only.

### Color Codes: MediaTuff

| Pair No. | Color Combination            |
|----------|------------------------------|
| 1        | White/Blue Stripe & Blue     |
| 2        | White/Orange Stripe & Orange |
| 3        | White/Green Stripe & Green   |
| 4        | White/Brown Stripe & Brown   |

Mylar is a DuPont trademark.

# Industrial Data Solutions® — Industrial Ethernet

## TrayOptic® Fiber Optic Cables

### Loose Tube — Indoor/Outdoor Riser & Tray

#### Product Description

The TrayOptic series cables are designed for indoor/outdoor industrial applications. All TrayOptic cables have been upgraded with a water-blocking agent. The TrayOptic series carry the IEEE 383 flame approval. All TrayOptic series products utilize the LCF™ (Laser Certified Fiber) to handle tomorrow's Gigabit Ethernet light sources and expanded bandwidth requirements. TrayOptic cables are also available with 50 micron or single-mode fiber upon request. For a complete listing of fiber optic cables, refer to Fiber Optical Cables in section 10.

#### Product Specifications

|                                        |                                                          |
|----------------------------------------|----------------------------------------------------------|
| <b>Fiber Counts*</b>                   | 2 through 24                                             |
| <b>Fiber Size</b>                      | 62.5µm                                                   |
| <b>Buffer Sizes</b>                    |                                                          |
| ≤ 6 Fibers                             | 2.0mm                                                    |
| > 6 Fibers                             | 2.5mm                                                    |
| <b>Jacket Materials</b>                | PVC or CPE                                               |
| <b>Flame Test</b>                      | Passes IEEE 383 and<br>UL 1581 Vertical Tray Flame Tests |
| <b>UL Listing NEC/CEC</b>              |                                                          |
| 2 to 12 Fibers                         | OFNR FT4                                                 |
| 18 to 24 Fibers                        | OFN FT1                                                  |
| <b>Strength Members</b>                | Dielectric Central Member/<br>Fiberglass Yarn            |
| <b>Temperature Range</b>               | -40 to +75°C                                             |
| <b>Crush Resistance</b>                | 1500 lbs./in. min.                                       |
| <b>Impact Resistance</b>               | 3.3 ft.-lbs./25 impacts min.                             |
| <b>Flexing</b>                         | 25 cycles, 12 lbs., 20 x OD radius min.                  |
| <b>Twist/Bend</b>                      | 25 cycles, 12 lbs., 20 x OD radius min.                  |
| <b>Minimum Bend Radius</b>             |                                                          |
| Installation                           | 20 x OD                                                  |
| Long Term                              | 10 x OD                                                  |
| <b>Maximum Recommended Load (Lbs.)</b> |                                                          |
| Installation                           | 600                                                      |
| Long Term                              | 180                                                      |

\*1- through 6-fiber cables are single fiber per tube.

#### Fiber Specifications

|                                             |         |
|---------------------------------------------|---------|
|                                             | 62.5µm  |
| <b>Max. Attenuation (dB/km @850/1300nm)</b> | 3.5/1.0 |
| <b>Min. Bandwidth (MHz-km @850/1300nm)</b>  | 220/600 |
| <b>Numerical Aperture</b>                   | 0.275   |

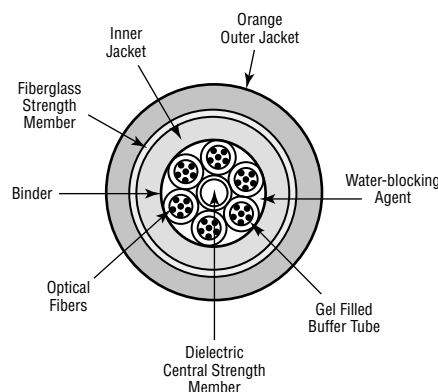
| Part No. | Jacket Material | No. of Fibers | Outer Diameter |    | Weight     |       |
|----------|-----------------|---------------|----------------|----|------------|-------|
|          |                 |               | Inch           | mm | Lbs./1000' | kg/km |

#### Riser (NEC/CEC OFNR FT4)

| 62.5/125/250 Micron (Core/Clad/Coating) |     |    |      |       |     |     |
|-----------------------------------------|-----|----|------|-------|-----|-----|
| <b>I100255</b>                          | PVC | 2  | .469 | 11.91 | 93  | 138 |
| <b>I100266</b>                          | CPE | 2  | .469 | 11.91 | 89  | 132 |
| <b>I100455</b>                          | PVC | 4  | .469 | 11.91 | 91  | 135 |
| <b>I100466</b>                          | CPE | 4  | .469 | 11.91 | 80  | 119 |
| <b>I100655</b>                          | PVC | 6  | .469 | 11.91 | 89  | 120 |
| <b>I100666</b>                          | CPE | 6  | .469 | 11.91 | 85  | 126 |
| <b>I400855</b>                          | PVC | 8  | .572 | 14.53 | 140 | 190 |
| <b>I400866</b>                          | CPE | 8  | .572 | 14.53 | 132 | 196 |
| <b>I601055</b> <small>NEW</small>       | PVC | 10 | .572 | 14.53 | 135 | 183 |
| <b>I601255</b>                          | PVC | 12 | .572 | 14.53 | 135 | 183 |
| <b>I601266</b>                          | CPE | 12 | .572 | 14.53 | 139 | 207 |

#### Tray (NEC/CEC OFN FT1)

| 62.5/125/250 Micron (Core/Clad/Coating) |     |    |      |       |     |     |
|-----------------------------------------|-----|----|------|-------|-----|-----|
| <b>I601855</b>                          | PVC | 18 | .572 | 14.53 | 133 | 180 |
| <b>I601866</b>                          | CPE | 18 | .572 | 14.53 | 136 | 202 |
| <b>I602455</b>                          | PVC | 24 | .572 | 14.53 | 133 | 180 |
| <b>I602466</b>                          | CPE | 24 | .572 | 14.53 | 137 | 204 |

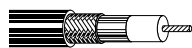


## Industrial Data Solutions® — Industrial Ethernet

## Coaxial Cables

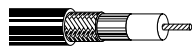
| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**Thinnet 10Base2 Ethernet • 20 AWG Stranded (19x32) .037" Tinned Copper • Duobond® II + 93% Tinned Copper Braid Shield****Foam Polyethylene Insulation • Gray PVC Jacket**

|                                                                                   |            |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      |      |       |      |
|-----------------------------------------------------------------------------------|------------|------|------|--------|---------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|-------|------|
|  | UL AWM     | 9907 | NEC: | 500    | 152.4   | 12.5 | 5.7  | 20 AWG   | .102 | 2.59 | Duobond II | .185 | 4.70 | 50 | 80% | 25.4 | 83.3 | 1    | .43   | 1.4  |
|                                                                                   | Style 1354 |      | CL2  | U-1000 | U-304.8 | 25.0 | 11.4 | (19x32)  |      |      | + 93%      |      |      |    |     |      |      | 10   | 1.30  | 4.3  |
|                                                                                   | (30V 60°C) |      | CM   | 1000   | 304.8   | 25.0 | 11.4 | .037"    |      |      | TC Braid   |      |      |    |     |      |      | 50   | 2.90  | 9.5  |
|                                                                                   |            |      | CEC: | 1640   | 500.0   | 39.4 | 17.9 | TC       |      |      | 5.8Ω/M'    |      |      |    |     |      |      | 100  | 4.20  | 13.8 |
|                                                                                   |            |      | CM   | U-2500 | U-762.0 | 60.0 | 27.3 | 8.8Ω/M'  |      |      | 19.0Ω/km   |      |      |    |     |      |      | 200  | 6.10  | 20.0 |
|                                                                                   |            |      |      | 2500   | 762.0   | 62.5 | 28.4 | 28.9Ω/km |      |      |            |      |      |    |     |      |      | 400  | 8.90  | 29.2 |
|                                                                                   |            |      |      | 3280   | 1000.0  | 82.0 | 37.3 |          |      |      |            |      |      |    |     |      |      | 700  | 12.10 | 39.7 |
|                                                                                   |            |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 13.90 | 45.6 |
|                                                                                   |            |      |      |        |         |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 14.80 | 48.6 |

DEC Part No. 17-01248-00

**Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket**

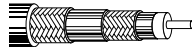
|                                                                                   |       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      |      |       |      |
|-----------------------------------------------------------------------------------|-------|-------|---------|-------|-------|------|------|----------|------|------|------------|------|------|----|-----|------|------|------|-------|------|
|  | 150°C | 89907 | NEC:    | 500†  | 152.4 | 13.0 | 5.9  | 20 AWG   | .095 | 2.41 | Duobond II | .160 | 4.06 | 50 | 80% | 25.4 | 83.3 | 1    | .43   | 1.4  |
|                                                                                   |       |       | CL2P    | 1000  | 304.8 | 24.0 | 10.9 | (19x32)  |      |      | + 93%      |      |      |    |     |      |      | 10   | 1.30  | 4.3  |
|                                                                                   |       |       | CMP     | 2500† | 762.0 | 60.0 | 27.3 | .037"    |      |      | TC Braid   |      |      |    |     |      |      | 50   | 2.90  | 9.5  |
|                                                                                   |       |       | CEC:    |       |       |      |      | TC       |      |      | 5.8Ω/M'    |      |      |    |     |      |      | 100  | 4.20  | 13.8 |
|                                                                                   |       |       | CMP FT6 |       |       |      |      | 8.8Ω/M'  |      |      | 19.0Ω/km   |      |      |    |     |      |      | 200  | 6.10  | 20.0 |
|                                                                                   |       |       |         |       |       |      |      | 28.9Ω/km |      |      |            |      |      |    |     |      |      | 400  | 9.20  | 30.2 |
|                                                                                   |       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 700  | 12.90 | 42.3 |
|                                                                                   |       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 900  | 15.00 | 49.2 |
|                                                                                   |       |       |         |       |       |      |      |          |      |      |            |      |      |    |     |      |      | 1000 | 16.00 | 52.5 |

RG-58/U Type

DEC Part No. 17-01246-00

Suitable for Outdoor and Direct Burial applications.

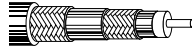
**Thicknet 10Base5 Ethernet • 12 AWG Solid .086" Bare Copper • Duobond IV\* Quad Shield****Foam Polyethylene Insulation • Yellow PVC Jacket**

|                                                                                     |            |      |      |      |       |       |      |         |      |      |                |      |       |    |     |      |      |      |      |       |
|-------------------------------------------------------------------------------------|------------|------|------|------|-------|-------|------|---------|------|------|----------------|------|-------|----|-----|------|------|------|------|-------|
|  | UL AWM     | 9880 | NEC: | 500  | 152.4 | 66.0  | 30.0 | 12 AWG  | .243 | 6.17 | Duobond IV     | .405 | 10.29 | 50 | 78% | 26.0 | 85.0 | 1    | .19  | .62   |
|                                                                                     | Style 1478 |      | CL2  | 1000 | 304.8 | 131.0 | 59.5 | (solid) |      |      | (Duobond II    |      |       |    |     |      |      | 5    | .37  | 1.21  |
|                                                                                     | (30V 60°C) |      | CM   | 1640 | 500.0 | 219.0 | 99.9 | .086"   |      |      | + 94% TC Braid |      |       |    |     |      |      | 10   | .52  | 1.71  |
|                                                                                     |            |      | CEC: |      |       |       |      | BC      |      |      | + Duofoil®     |      |       |    |     |      |      | 50   | 1.20 | 3.94  |
|                                                                                     |            |      | CM   |      |       |       |      | 1.4Ω/M' |      |      | + 90% TC       |      |       |    |     |      |      | 100  | 1.70 | 5.58  |
|                                                                                     |            |      |      |      |       |       |      | 4.7Ω/km |      |      | Braid)         |      |       |    |     |      |      | 200  | 2.55 | 8.37  |
|                                                                                     |            |      |      |      |       |       |      |         |      |      | 1.5Ω/M'        |      |       |    |     |      |      | 400  | 3.90 | 12.80 |
|                                                                                     |            |      |      |      |       |       |      |         |      |      | 5.0Ω/km        |      |       |    |     |      |      | 700  | 5.50 | 18.10 |
|                                                                                     |            |      |      |      |       |       |      |         |      |      |                |      |       |    |     |      |      | 900  | 6.50 | 21.30 |
|                                                                                     |            |      |      |      |       |       |      |         |      |      |                |      |       |    |     |      |      | 1000 | 6.90 | 22.60 |

DEC Part No. 17-00451-00

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

**Plenum • Foam FEP Insulation • Orange Fluorocopolymer Jacket**

|                                                                                     |       |       |         |       |       |       |       |         |      |      |                |      |      |    |     |      |      |      |      |       |
|-------------------------------------------------------------------------------------|-------|-------|---------|-------|-------|-------|-------|---------|------|------|----------------|------|------|----|-----|------|------|------|------|-------|
|  | 150°C | 89880 | NEC:    | 500†  | 152.4 | 67.0  | 30.5  | 12 AWG  | .245 | 6.22 | Duobond IV     | .375 | 9.53 | 50 | 78% | 26.0 | 85.0 | 1    | .18  | .59   |
|                                                                                     |       |       | CL2P    | 1000† | 304.8 | 134.0 | 60.9  | (solid) |      |      | (Duobond II    |      |      |    |     |      |      | 5    | .37  | 1.21  |
|                                                                                     |       |       | CMP     | 1640† | 500.0 | 224.7 | 102.1 | .086"   |      |      | + 90% TC Braid |      |      |    |     |      |      | 10   | .52  | 1.71  |
|                                                                                     |       |       | CEC:    |       |       |       |       | BC      |      |      | + Duofoil      |      |      |    |     |      |      | 50   | 1.15 | 3.77  |
|                                                                                     |       |       | CMP FT6 |       |       |       |       | 1.4Ω/M' |      |      | + 90% TC       |      |      |    |     |      |      | 100  | 1.65 | 5.41  |
|                                                                                     |       |       |         |       |       |       |       | 4.7Ω/km |      |      | Braid)         |      |      |    |     |      |      | 200  | 2.45 | 8.04  |
|                                                                                     |       |       |         |       |       |       |       |         |      |      | 1.5Ω/M'        |      |      |    |     |      |      | 400  | 3.80 | 12.50 |
|                                                                                     |       |       |         |       |       |       |       |         |      |      | 5.0Ω/km        |      |      |    |     |      |      | 700  | 5.60 | 18.40 |
|                                                                                     |       |       |         |       |       |       |       |         |      |      |                |      |      |    |     |      |      | 900  | 6.80 | 22.30 |
|                                                                                     |       |       |         |       |       |       |       |         |      |      |                |      |      |    |     |      |      | 1000 | 7.20 | 23.60 |

DEC Part No. 17-00324-00

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1.**

For cable manufactured to latest government revision or other MIL-SPEC requirements, please contact your nearest Belden Regional Sales Office.

\* Duobond IV = Duobond II + 94% tinned copper braid + Duofoil® + 90% tinned copper braid.

(Plenum version is Duobond II + 90% tinned copper braid + Duofoil + 90% tinned copper braid.)

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.





## Industrial Data Solutions® — Industrial Twinax

### Belden® Blue Hose® Selection Guide for PLC and DCS Applications

Blue Hose cable provides factory floor interface to PLCs and other control network devices. The product line comes in a variety of constructions to meet the demands of various industrial environments.

| Part No.        | Description                                                                                                                                                                                                                                                                                                                                                                                       | Specifications                                                                                                                                                                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>9463</b>     | <b>Blue Hose Standard Data Highway Cable</b><br>A Standard Data Highway Cable that is sometimes referred to as Blue Hose. Designed to be used in light industrial environments. Available in Blue, Brown, Orange or Violet up to 10,000 ft. special lengths.                                                                                                                                      | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil® + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .238".                                                                           |
| <b>3072F</b>    | <b>600V Data Highway Cable — UL Type TC</b><br>A DataTray® cable designed for cable tray use in industrial applications. Cable can occupy same tray or conduit as 600V power cables. See Allen-Bradley guide for spacing/ampacity limitations.                                                                                                                                                    | 1-pair, 18 AWG stranded (7x26) tinned copper, flame-retardant polyolefin insulation (color coded Blue, White), Beldfoil + 55% tinned copper braid and drain wire, Dark Blue sunlight-resistant PVC jacket. Nominal diameter: .324". UL-1277 600V TC.                                        |
| <b>9463F</b>    | <b>High-Flexibility Festooning Cable</b><br>A highly flexible cable that is ideal for use in high-flex applications such as festoon, C-track and robotics. The cable also has heavier braid coverage for better noise immunity.                                                                                                                                                                   | 1-pair, 20 AWG stranded (42x36) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 85% tinned copper braid, Blue sunlight-resistant PVC jacket. Nominal diameter: .243".                                                                                          |
| <b>YR28826*</b> | <b>Dual Data Highway Cable</b><br>Dual Data Highway/Remote I/O cable has two Twinax pairs individually shielded with an overall braid. Designed for use in daisy chain applications or applications requiring one Data Highway and one Remote I/O line.                                                                                                                                           | 2-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), each pair Beldfoil shielded (1 pair Blue tape and 1 pair Green tape), 85% tinned copper braid and drain wire, Blue PVC jacket. Nominal diameter: .382".                                    |
| <b>YC39151*</b> | <b>Dual Armored Data Highway Cable</b><br>Features two twinax pairs individually shielded with an overall braid, an inner PVC jacket, aluminum interlocked armor, with an outer PVC jacket. Designed for use in daisy chain applications or applications requiring one Data Highway and one Remote I/O line, with the extra mechanical protection and electrical shielding provided by the armor. | 2-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), each pair Beldfoil shielded, 55% tinned copper braid and drain wire, Blue PVC inner jacket, aluminum interlocked armor, Blue sunlight-resistant PVC outer jacket. Nominal diameter: .820". |
| <b>9463DB</b>   | <b>Gel-Filled Direct Burial Cable</b><br>A gel-filled Data Highway cable featuring a low-density polyethylene (LDPE) jacket. Especially suited for high-moisture environments and burial applications. (Allen-Bradley recommends using fiber optics for outdoor applications.)                                                                                                                    | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, CoreGuard® flooding compound, Blue sunlight-resistant low density polyethylene jacket. Nominal diameter: .240".                         |
| <b>89463</b>    | <b>Plenum Cable</b><br>A plenum, 200°C grade cable that is suitable for installations where high and low temperatures, as well as corrosive environments, are encountered.                                                                                                                                                                                                                        | 1-pair, 20 AWG stranded (7x28) tinned copper, FEP insulation (color coded Blue, Clear), Beldfoil + 56% tinned copper braid and drain wire, Blue FEP jacket. Nominal diameter: .203".                                                                                                        |
| <b>YR28764*</b> | <b>Thick-Wall, Heavy-Duty Cable — UL Type PLTC FT4</b><br>A rugged, heavy-duty cable specially designed for abusive environments. A .069" thick jacket provides extra protection against cuts and abrasion.                                                                                                                                                                                       | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .380".                                                                            |
| <b>YR41104*</b> | <b>Low Smoke, Zero Halogen Cable</b><br>For applications concerned with smoke emissions, toxicity and electronic component corrosion.                                                                                                                                                                                                                                                             | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue Haloarrest® jacket. Nominal diameter: .259".                                                                                       |
| <b>129463</b>   | <b>Aluminum Interlocked Armor Blue Hose Cable</b><br>Features interlocked aluminum armor combined with a PVC jacket and is an ideal alternative to conduit installation. Provides both mechanical protection and electrical shielding. Up to 25 Data Highway cables can be bundled under one sheath.                                                                                              | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, aluminum interlocked armor, Blue PVC sunlight-resistant outer jacket. Nominal armor diameter: .563".             |
| <b>139463</b>   | <b>Steel Interlocked Armor Blue Hose Cable</b><br>Features interlocked galvanized steel armor combined with a PVC jacket. Provides mechanical protection and electrical shielding, as well as prevention against the low-frequency 60 Hz magnetic noise from power lines. Up to 25 cables can be bundled under one sheath.                                                                        | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, steel interlocked armor, Blue sunlight-resistant outer PVC jacket. Nominal armor diameter: .563".                |
| <b>189463</b>   | <b>Continuously Corrugated Aluminum Armor Blue Hose Cable</b><br>Features continuously corrugated aluminum armor combined with a PVC jacket. Provides mechanical protection, electrical shielding and is impervious to moisture.                                                                                                                                                                  | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, continuously corrugated aluminum armor, Blue sunlight-resistant PVC outer jacket. Nominal armor diameter: .500". |
| <b>YR29565*</b> | <b>Colored Blue Hose</b><br>When your application calls for multiple Data Highway cables you can rest assured that Belden has the solution. This special construction is available in Red, Yellow, Green, White or Pink.                                                                                                                                                                          | 1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, sunlight-resistant PVC jacket. Nominal diameter: .243".                                                                                 |

\*Custom made product. Minimum order quantity may apply.



By:



INTERSTATE WIRE CO.  
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1-800-527-0010

# Industrial Data Solutions® — Industrial Twinax

## Blue Hose® Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

### 78 Ohm • 20 AWG Stranded (7x28) .038" Tinned Copper • Beldfoil® + 55% Tinned Copper Braid Shield (100% Shield Coverage)

#### Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Clear, Blue)

|                  |             |        |        |         |       |       |          |      |      |          |      |      |    |     |      |      |     |      |      |
|------------------|-------------|--------|--------|---------|-------|-------|----------|------|------|----------|------|------|----|-----|------|------|-----|------|------|
| <b>Blue Hose</b> | <b>9463</b> | NEC:   | 100    | 30.5    | 4.6   | 2.1   | 20 AWG   | .154 | 3.91 | Beldfoil | .238 | 6.05 | 78 | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |
| UL AWM           |             | CM CL2 | U-500  | U-152.4 | 18.5  | 8.4   | (7x28)   |      |      | +55%     |      |      |    |     |      |      | 10  | 2.1  | 6.9  |
| Style 2464       |             | CEC:   | 500    | 152.4   | 18.5  | 8.4   | .038"    |      |      | TC Braid |      |      |    |     |      |      | 50  | 3.6  | 11.8 |
| (300V 80°C)      |             | CM     | U-1000 | U-304.8 | 37.0  | 16.8  | Tinned   |      |      | 4.1Ω/M'  |      |      |    |     |      |      | 100 | 7.5  | 24.6 |
|                  |             |        | 1000▲  | 304.8   | 37.0  | 16.8  | Copper   |      |      | 13.4Ω/km |      |      |    |     |      |      | 200 | 11.0 | 36.1 |
|                  |             |        | 6000▲  | 1828.7  | 222.0 | 100.9 | 9.5Ω/M'  |      |      |          |      |      |    |     |      |      | 400 | 16.0 | 52.5 |
|                  |             |        | 10000• | 3048.0  | 370.0 | 168.2 | 31.0Ω/km |      |      |          |      |      |    |     |      |      |     |      |      |



Z- Fold®

Allen-Bradley P/N 1770-CD

P-7K-SC-182141-MSHA\*

▲1000 ft. and 6000 ft. put-ups also available in Brown, Orange or Violet.

•10000 ft. put-up available in Brown, Orange or Violet only.

CPE jacket optional.

#### Polyethylene Insulation • Blue Sunlight-resistant LDPE Jacket (Color Code: Clear, Blue)

|                      |               |  |      |        |       |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|----------------------|---------------|--|------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|-----|------|------|
| <b>Flooded</b>       | <b>9463DB</b> |  | 1000 | 304.8  | 33.0  | 15.0 | 20 AWG   | .154 | 3.91 | Beldfoil | .240 | 6.10 | 78 | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |
| <b>Direct Burial</b> | <b>new</b>    |  | 5000 | 1524.0 | 155.0 | 70.5 | (7x28)   |      |      | +55%     |      |      |    |     |      |      | 10  | 2.1  | 6.9  |
| <b>Blue Hose</b>     |               |  |      |        |       |      | .038"    |      |      | TC Braid |      |      |    |     |      |      | 50  | 3.6  | 11.8 |
| 300V 80°C            |               |  |      |        |       |      | Tinned   |      |      | 4.1Ω/M'  |      |      |    |     |      |      | 100 | 7.5  | 24.6 |
|                      |               |  |      |        |       |      | Copper   |      |      | 13.4Ω/km |      |      |    |     |      |      | 200 | 11.0 | 36.1 |
|                      |               |  |      |        |       |      | 9.5Ω/M'  |      |      |          |      |      |    |     |      |      | 400 | 16.0 | 52.5 |
|                      |               |  |      |        |       |      | 31.0Ω/km |      |      |          |      |      |    |     |      |      |     |      |      |



Z- Fold®

Allen-Bradley P/N 1770-CD

### 78 Ohm • 20 AWG Stranded (42x36) .038" Tinned Copper • Overall Beldfoil + 85% Tinned Copper Braid Shield (100% Coverage)

#### Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Clear, Blue)

|                  |              |        |      |        |       |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|------------------|--------------|--------|------|--------|-------|------|----------|------|------|----------|------|------|----|-----|------|------|-----|------|------|
| <b>High-Flex</b> | <b>9463F</b> | NEC:   | 1000 | 304.8  | 42.0  | 19.1 | 20 AWG   | .154 | 3.91 | Beldfoil | .243 | 6.17 | 78 | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |
| <b>Blue Hose</b> | <b>new</b>   | CM CL2 | 5000 | 1524.0 | 205.0 | 93.2 | (42x36)  |      |      | +85%     |      |      |    |     |      |      | 10  | 2.1  | 6.9  |
| UL AWM           |              | CEC:   |      |        |       |      | .038"    |      |      | TC Braid |      |      |    |     |      |      | 50  | 3.6  | 11.8 |
| Style 2464       |              | CM     |      |        |       |      | Tinned   |      |      | 5.0Ω/M'  |      |      |    |     |      |      | 100 | 7.5  | 24.6 |
| (300V 60°C)      |              |        |      |        |       |      | Copper   |      |      | 6.4Ω/km  |      |      |    |     |      |      | 200 | 11.0 | 36.1 |
|                  |              |        |      |        |       |      | 9.5Ω/M'  |      |      |          |      |      |    |     |      |      | 400 | 16.0 | 52.5 |
|                  |              |        |      |        |       |      | 31.0Ω/km |      |      |          |      |      |    |     |      |      |     |      |      |



Allen-Bradley P/N 1770-CD

P-7K-SC-182141-MSHA\*

### 78 Ohm • 20 AWG Stranded (7x28) .038" Tinned Copper • Overall Beldfoil + 56% Tinned Copper Braid Shield (100% Coverage)

#### Plenum • FEP Insulation • Blue FEP Jacket (Color Code: Clear, Blue)

|                         |              |          |      |       |      |      |          |      |      |          |      |      |    |     |      |      |     |      |      |
|-------------------------|--------------|----------|------|-------|------|------|----------|------|------|----------|------|------|----|-----|------|------|-----|------|------|
| <b>High Temperature</b> | <b>89463</b> | NEC:     | 1000 | 304.8 | 36.0 | 16.4 | 20 AWG   | .151 | 3.83 | Beldfoil | .203 | 5.16 | 78 | 69% | 19.7 | 64.6 | 1   | .6   | 2.0  |
| <b>Blue Hose</b>        | <b>new</b>   | CMP CL2P | 2500 | 762.0 | 90.0 | 40.9 | (7x28)   |      |      | +56%     |      |      |    |     |      |      | 10  | 2.1  | 6.9  |
| 300V 200°C              |              | CEC:     |      |       |      |      | .038"    |      |      | TC Braid |      |      |    |     |      |      | 50  | 3.6  | 11.8 |
|                         |              | CMP FT6  |      |       |      |      | Tinned   |      |      | 4.1Ω/M'  |      |      |    |     |      |      | 100 | 7.5  | 24.6 |
|                         |              |          |      |       |      |      | Copper   |      |      | 13.4Ω/km |      |      |    |     |      |      | 200 | 11.0 | 36.1 |
|                         |              |          |      |       |      |      | 9.5Ω/M'  |      |      |          |      |      |    |     |      |      | 400 | 16.0 | 52.5 |
|                         |              |          |      |       |      |      | 31.0Ω/km |      |      |          |      |      |    |     |      |      |     |      |      |



Z- Fold®

Allen-Bradley P/N 1770-CD

DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • LDPE = Low-density Polyethylene • TC = Tinned Copper

\*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.



# Industrial Data Solutions® — Industrial Twinax

## Blue Hose® and Other Twinaxial Cables

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**78 Ohm • 20 AWG** Stranded (7x28) Tinned Copper • Overall Beldfoil® + 55% Tinned Copper Braid Shield (100% Coverage)

| Aluminum Interlocked Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket* (Color Code: Clear, Blue)                                       |                                  |                          |      |        |       |          |        |      |      |          |          |      |       |      |      |     |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|------|--------|-------|----------|--------|------|------|----------|----------|------|-------|------|------|-----|------|------|------|
| <div>Aluminum Armored Blue Hose</div> <div>300V 60°C</div> <div></div> | <div>129463</div> <div>new</div> | NEC:                     | 1000 | 304.8  | 122.0 | 55.5     | 20 AWG | .154 | 3.91 | Beldfoil | Core:    | 78   | 66%   | 19.7 | 64.6 | 1   | .6   | 2.0  |      |
|                                                                                                                                                        |                                  | CMG CL2                  | 6000 | 1828.8 | 924.0 | 420.0    | (7x28) |      |      | +55%     | .238     | 6.05 |       |      |      |     | 10   | 2.1  | 6.9  |
|                                                                                                                                                        |                                  | CEC:                     |      |        |       |          | .038"  |      |      | TC Braid |          |      |       |      |      |     | 50   | 3.6  | 11.8 |
|                                                                                                                                                        |                                  | CM,                      |      |        |       |          | Tinned |      |      | 4.1Ω/M'  | Armor:   |      |       |      |      |     | 100  | 7.5  | 24.6 |
|                                                                                                                                                        |                                  | CMG FT4, HLBCD (Haz Loc) |      |        |       |          | Copper |      |      | 9.5Ω/M'  | 13.4Ω/km | .563 | 14.30 |      |      |     | 200  | 11.0 | 36.1 |
|                                                                                                                                                        |                                  |                          |      |        |       | 31.0Ω/km |        |      |      |          |          |      |       |      |      | 400 | 16.0 | 52.5 |      |

\*Blue PVC inner jacket.  
Allen-Bradley P/N 1770-CD

| Steel Interlocked Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket* (Color Code: Clear, Blue)                                               |                                  |          |      |        |        |          |        |      |      |          |        |       |     |      |      |     |      |      |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|------|--------|--------|----------|--------|------|------|----------|--------|-------|-----|------|------|-----|------|------|------|
| <div>Steel<br/>Armored<br/>Blue Hose</div> <div>300V 60°C</div> <div></div> | <div>139463</div> <div>new</div> | NEC:     | 1000 | 304.8  | 220.0  | 100.0    | 20 AWG | .154 | 3.91 | Beldfoil | Core:  | 78    | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |      |
|                                                                                                                                                             |                                  | CMG CL2  | 6000 | 1828.8 | 1488.0 | 676.4    | (7x28) |      |      | +55%     | .238   | 6.05  |     |      |      |     | 10   | 2.1  | 6.9  |
|                                                                                                                                                             |                                  | CEC:     |      |        |        |          | .038"  |      |      | TC Braid |        |       |     |      |      |     | 50   | 3.6  | 11.8 |
|                                                                                                                                                             |                                  | CM,      |      |        |        |          | Tinned |      |      | 4.1Ω/M'  | Armor: |       |     |      |      |     | 100  | 7.5  | 24.6 |
|                                                                                                                                                             |                                  | CMG FT4, |      |        |        |          | Copper |      |      | 13.4Ω/km | .563   | 14.30 |     |      |      |     | 200  | 11.0 | 36.1 |
|                                                                                                                                                             |                                  |          |      |        |        | 9.5Ω/M'  |        |      |      |          |        |       |     |      |      | 400 | 16.0 | 52.5 |      |
|                                                                                                                                                             |                                  |          |      |        |        | 31.0Ω/km |        |      |      |          |        |       |     |      |      |     |      |      |      |

\*Blue PVC inner jacket.  
Allen-Bradley P/N 1770-CD

| Continuously Corrugated AL Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket* (Color Code: Clear, Blue)                                       |                                  |              |      |        |       |       |                  |      |      |                  |                |       |    |     |      |      |     |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------|------|--------|-------|-------|------------------|------|------|------------------|----------------|-------|----|-----|------|------|-----|------|------|
| <div>Continuously Armored Blue Hose</div> <div>300V 60°C</div> <div></div> | <div>189463</div> <div>new</div> | NEC:<br>PLTC | 6000 | 1828.8 | 864.0 | 392.7 | 20 AWG<br>(7x28) | .154 | 3.91 | Beldfoil<br>+55% | Core:<br>.238  | 6.05  | 78 | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |
|                                                                                                                                                              |                                  |              |      |        |       |       | .038"            |      |      | TC Braid         |                |       |    |     |      |      | 10  | 2.1  | 6.9  |
|                                                                                                                                                              |                                  |              |      |        |       |       | Tinned           |      |      | 4.1Ω/M'          | Armor:<br>.500 | 12.70 |    |     |      |      | 50  | 3.6  | 11.8 |
|                                                                                                                                                              |                                  |              |      |        |       |       | Copper           |      |      | 9.5Ω/M'          |                |       |    |     |      |      | 100 | 7.5  | 24.6 |
|                                                                                                                                                              |                                  |              |      |        |       |       |                  |      |      | 31.0Ω/km         |                |       |    |     |      |      | 200 | 11.0 | 36.1 |
|                                                                                                                                                              |                                  |              |      |        |       |       |                  |      |      |                  |                |       |    |     |      |      | 400 | 16.0 | 52.5 |

\*Blue PVC inner jacket.  
Allen-Bradley P/N 1770-CD

**78 Ohm • 20 AWG** Stranded (7x28) .038" Tinned Copper • 93% Tinned Copper Braid Shield

| Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue) |      |      |        |         |      |      |          |      |      |          |      |                                        |    |     |      |      |     |      |      |
|---------------------------------------------------------------------|------|------|--------|---------|------|------|----------|------|------|----------|------|----------------------------------------|----|-----|------|------|-----|------|------|
| UL AWM                                                              | 9272 | NEC: | 100    | 30.5    | 4.9  | 2.2  | 20 AWG   | .156 | 3.96 | 93%      | .244 | 6.20                                   | 78 | 66% | 19.7 | 64.6 | 1   | .6   | 2.0  |
| Style 2092                                                          |      | CM   | U-500  | U-152.4 | 20.0 | 9.1  | (7x28)   |      |      | TC Braid |      |                                        |    |     |      |      | 10  | 2.1  | 6.9  |
| (300V 60°C)                                                         |      | CEC: | 500    | 152.4   | 20.0 | 9.1  | .038"    |      |      | Shield   |      |                                        |    |     |      |      | 50  | 5.0  | 16.4 |
|                                                                     |      | CM   | U-1000 | U-304.8 | 39.0 | 17.7 | Tinned   |      |      | 3.4Ω/M'  |      | For Plenum version of 9272, see 89272. |    |     |      |      | 100 | 7.5  | 24.6 |
|                                                                     |      |      | 1000   | 304.8   | 40.0 | 18.2 | Copper   |      |      | 11.2Ω/km |      | CPE jacket optional.                   |    |     |      |      | 200 | 11.0 | 36.1 |
|                                                                     |      |      |        |         |      |      | 9.5Ω/M'  |      |      |          |      |                                        |    |     |      |      | 400 | 16.0 | 52.5 |
|                                                                     |      |      |        |         |      |      | 31.0Ω/km |      |      |          |      |                                        |    |     |      |      |     |      |      |

**95 Ohm • RG-22B/U Type • 18 AWG** Stranded (7x26) Bare Copper† • (2) Tinned Copper Braids (95% Coverage)

| Polyethylene Insulation • Black Non-contaminating PVC Jacket                                       |      |      |       |          |      |         |         |      |          |                      |       |    |     |      |      |     |     |      |     |
|----------------------------------------------------------------------------------------------------|------|------|-------|----------|------|---------|---------|------|----------|----------------------|-------|----|-----|------|------|-----|-----|------|-----|
| 80°C<br>VW-1<br> | 9250 | 500  | 152.4 | 64.5     | 29.3 | 18 AWG  | .285    | 7.24 | 2        | .420                 | 10.67 | 95 | 66% | 16.0 | 52.5 | 1   | .3  | 1.0  |     |
|                                                                                                    |      | 1000 | 304.8 | 128.0    | 58.2 | (7x26)  |         |      | TC Braid |                      |       |    |     |      |      |     | 10  | .9   | 3.0 |
|                                                                                                    |      |      |       |          |      | .046"   |         |      | 95%      |                      |       |    |     |      |      |     | 20  | 1.3  | 4.3 |
|                                                                                                    |      |      |       |          |      | BC      |         |      | Shield   |                      |       |    |     |      |      |     | 50  | 2.1  | 6.9 |
|                                                                                                    |      |      |       |          |      | 6.6Ω/M' |         |      | .9Ω/M'   | CPE jacket optional. |       |    |     |      | 100  | 3.0 | 9.8 |      |     |
|                                                                                                    |      |      |       | 21.5Ω/km |      |         | 3.0Ω/km |      |          |                      |       |    |     |      |      | 400 | 6.3 | 20.7 |     |

†1 conductor has tinned center strand.

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • PE = Polyethylene • TC = Tinned Copper



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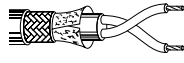
For Sales and Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

**Industrial Data Solutions® — Industrial Twinax****Twinaxial Cables**

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal<br>Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|--------------------|----|------------------------------------|------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch               | mm |                                    | Inch       | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**100 Ohm • 20 AWG** Stranded (7x28) .037" One Tinned, One Bare Copper • Duofoil® + 86% Tinned Copper Braid Shield (100% Shield Coverage)**Polyethylene Insulation • Black PVC Jacket**

|                                                                                   |             |         |       |         |       |       |          |      |      |          |      |      |     |     |      |      |     |      |      |
|-----------------------------------------------------------------------------------|-------------|---------|-------|---------|-------|-------|----------|------|------|----------|------|------|-----|-----|------|------|-----|------|------|
| 75°C                                                                              | <b>9207</b> | NEC:    | 100   | 30.5    | 7.1   | 3.2   | 20 AWG   | .236 | 5.99 | Duofoil  | .330 | 8.38 | 100 | 66% | 15.5 | 50.9 | 1   | .3   | 1.0  |
|  |             | CMG CL2 | U-500 | U-152.4 | 34.0  | 15.5  | (7x28)   |      |      | + 86%    |      |      |     |     |      |      | 10  | 1.2  | 3.9  |
|                                                                                   |             | CEC:    | 500   | 152.4   | 33.5  | 15.2  | .037"    |      |      | TC Braid |      |      |     |     |      |      | 50  | 2.8  | 9.2  |
|                                                                                   |             | CMG FT4 | 1000  | 304.8   | 68.0  | 30.9  | 1 TC     |      |      | 2.5Ω/M'  |      |      |     |     |      |      | 100 | 4.1  | 13.5 |
|                                                                                   |             |         | 1640  | 500.0   | 111.5 | 50.7  | 1 BC     |      |      | 8.2Ω/km  |      |      |     |     |      |      | 200 | 6.4  | 21.0 |
|                                                                                   |             |         | 2000  | 609.6   | 136.0 | 61.8  | 9.5Ω/M'  |      |      |          |      |      |     |     |      |      | 400 | 10.2 | 33.5 |
|                                                                                   |             |         | 3280  | 1000.0  | 219.8 | 99.9  | 31.0Ω/km |      |      |          |      |      |     |     |      |      |     |      |      |
|                                                                                   |             |         | 5000  | 1524.0  | 350.0 | 159.1 |          |      |      |          |      |      |     |     |      |      |     |      |      |

IBM P/N 7362211

For Plenum version of 9207,  
see 89207.  
CPE jacket optional.**124 Ohm • 25 AWG** Stranded (7x33) .021" Tinned Copper • Beldfoil® (100% Shield Coverage) • Stranded Tinned Copper Drain Wire**Polyethylene Insulation • Blue PVC Jacket** (Color Code: Clear, Blue)

|                                                                                   |             |      |        |         |      |      |           |      |      |          |      |      |     |     |      |      |     |     |      |
|-----------------------------------------------------------------------------------|-------------|------|--------|---------|------|------|-----------|------|------|----------|------|------|-----|-----|------|------|-----|-----|------|
| UL AWM                                                                            | <b>9271</b> | NEC: | 100    | 30.5    | 3.7  | 1.7  | 25 AWG    | .170 | 4.32 | 100%     | .240 | 6.10 | 124 | 66% | 12.2 | 40.0 | 1   | .6  | 2.0  |
| Style 2092                                                                        |             | CM   | U-500  | U-152.4 | 14.0 | 6.4  | (7x33)    |      |      | Beldfoil |      |      |     |     |      |      | 10  | 1.7 | 5.6  |
| (300V 60°C)                                                                       |             | CEC: | 500    | 152.4   | 14.0 | 6.4  | .021"     |      |      | Shield   |      |      |     |     |      |      | 50  | 3.6 | 11.8 |
|  |             | CM   | U-1000 | U-304.8 | 27.0 | 12.3 | Tinned    |      |      | 12.0Ω/M' |      |      |     |     |      |      | 100 | 5.0 | 16.4 |
|                                                                                   |             |      | 1000   | 304.8   | 28.0 | 12.7 | Copper    |      |      | 39.4Ω/km |      |      |     |     |      |      | 200 | 6.9 | 22.6 |
|                                                                                   |             |      |        |         |      |      | 31.8Ω/M'  |      |      |          |      |      |     |     |      |      | 400 | 9.6 | 31.5 |
|                                                                                   |             |      |        |         |      |      | 104.3Ω/km |      |      |          |      |      |     |     |      |      |     |     |      |

Shorting Fold

CPE jacket optional.

**124 Ohm • 16 AWG** Solid .051" Bare Copper • Duofoil + 90% Tinned Copper Braid Shield (100% Shield Coverage)**Foam Polyethylene Insulation • Black PVC Jacket** (Color Code: White, Blue)

|                                                                                     |             |      |      |       |       |      |          |      |      |          |      |       |     |     |      |      |     |     |      |
|-------------------------------------------------------------------------------------|-------------|------|------|-------|-------|------|----------|------|------|----------|------|-------|-----|-----|------|------|-----|-----|------|
| UL AWM                                                                              | <b>9860</b> | NEC: | 500  | 152.4 | 52.0  | 23.6 | 16 AWG   | .322 | 8.18 | Duofoil  | .440 | 11.18 | 124 | 78% | 10.9 | 35.8 | 1   | .18 | .6   |
| Style 2448                                                                          |             | CMX  | 1000 | 304.8 | 103.0 | 46.8 | (solid)  |      |      | +90%     |      |       |     |     |      |      | 10  | .71 | 2.3  |
| (30V 60°C)                                                                          |             | CEC: | 2000 | 609.6 | 202.0 | 91.8 | .051"    |      |      | TC Braid |      |       |     |     |      |      | 50  | 1.8 | 5.9  |
|  |             | CMX  |      |       |       |      | Bare     |      |      | 1.3Ω/M'  |      |       |     |     |      |      | 100 | 2.9 | 9.5  |
|                                                                                     |             |      |      |       |       |      | Copper   |      |      | 4.3Ω/km  |      |       |     |     |      |      | 200 | 4.1 | 13.5 |
|                                                                                     |             |      |      |       |       |      | 4.2Ω/M'  |      |      |          |      |       |     |     |      |      | 400 | 6.2 | 20.3 |
|                                                                                     |             |      |      |       |       |      | 13.8Ω/km |      |      |          |      |       |     |     |      |      |     |     |      |

CPE jacket optional.

**150 Ohm • 22 AWG** Stranded (19x34) .031" Tinned Copper • Duofoil (100% Shield Coverage) • Stranded Tinned Copper Drain Wire**Datalene® Insulation • Black PVC Jacket** (Color Code: Black, Yellow)

|                                                                                     |             |          |       |         |      |      |          |      |      |          |      |      |     |     |     |      |     |     |      |
|-------------------------------------------------------------------------------------|-------------|----------|-------|---------|------|------|----------|------|------|----------|------|------|-----|-----|-----|------|-----|-----|------|
| UL AWM                                                                              | <b>9182</b> | NEC:     | U-500 | U-152.4 | 23.0 | 10.5 | 22 AWG   | .275 | 6.98 | 100%     | .345 | 8.76 | 150 | 78% | 8.8 | 28.9 | 1   | .4  | 1.3  |
| Style 2668                                                                          |             | CL2X CMX | 500   | 152.4   | 23.5 | 10.7 | (19x34)  |      |      | Duofoil  |      |      |     |     |     |      | 10  | 1.2 | 3.9  |
| (30V 60°C)                                                                          |             | CEC:     | 1000  | 304.8   | 45.0 | 20.5 | .031"    |      |      | Shield   |      |      |     |     |     |      | 50  | 2.7 | 8.7  |
| VW-1                                                                                |             | CMX      |       |         |      |      | Tinned   |      |      | 6.3Ω/M'  |      |      |     |     |     |      | 100 | 4.3 | 14.1 |
|  |             |          |       |         |      |      | Copper   |      |      | 20.7Ω/km |      |      |     |     |     |      | 200 | 6.2 | 20.3 |
|                                                                                     |             |          |       |         |      |      | 14.0Ω/M' |      |      |          |      |      |     |     |     |      | 400 | 8.8 | 28.9 |
|                                                                                     |             |          |       |         |      |      | 45.9Ω/km |      |      |          |      |      |     |     |     |      |     |     |      |

For Plenum version of 9182,  
see 89182.  
Dual version: YR41609  
CPE jacket optional.**Plenum • Foam FEP Insulation • Black FEP Jacket** (Color Code: Black, Yellow)

|                                                                                     |              |         |                   |       |      |      |          |      |      |          |      |      |     |     |     |      |     |     |      |
|-------------------------------------------------------------------------------------|--------------|---------|-------------------|-------|------|------|----------|------|------|----------|------|------|-----|-----|-----|------|-----|-----|------|
|                                                                                     | <b>89182</b> | NEC:    | 100               | 30.5  | 6.4  | 2.9  | 22 AWG   | .278 | 7.06 | 100%     | .307 | 7.80 | 150 | 78% | 8.8 | 28.9 | 1   | .4  | 1.3  |
|  |              | CMP     | 500 <sup>†</sup>  | 152.4 | 28.0 | 12.7 | (19x34)  |      |      | Duofoil  |      |      |     |     |     |      | 10  | 1.2 | 3.9  |
|                                                                                     |              | CL2P    | 1000 <sup>†</sup> | 304.8 | 53.0 | 24.1 | .031"    |      |      | Shield   |      |      |     |     |     |      | 50  | 2.7 | 8.7  |
|                                                                                     |              | CEC:    |                   |       |      |      | Tinned   |      |      | 6.3Ω/M'  |      |      |     |     |     |      | 100 | 4.3 | 14.1 |
|                                                                                     |              | CMP FT6 |                   |       |      |      | Copper   |      |      | 20.7Ω/km |      |      |     |     |     |      | 200 | 6.2 | 20.3 |
|                                                                                     |              |         |                   |       |      |      | 14.0Ω/M' |      |      |          |      |      |     |     |     |      | 400 | 8.8 | 28.9 |
|                                                                                     |              |         |                   |       |      |      | 45.9Ω/km |      |      |          |      |      |     |     |     |      |     |     |      |

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • TC = Tinned Copper

<sup>†</sup>Spools are one piece, but length may vary ±10% from length shown.

**Industrial Data Solutions® — Industrial Twinax****DataTray® 600V Twinaxial Cables**

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**18 AWG Stranded (7x26) Tinned Copper • Overall Beldfoil® + 55% Tinned Copper Braid Shield (100% Coverage)****Flame-retardant Polyolefin Insulation • Dark Blue Sunlight-resistant PVC Jacket (Color Code: White, Blue)**

|                                                                                                                       |                                      |          |       |        |       |       |         |      |      |          |      |      |    |     |      |    |     |      |      |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------|-------|--------|-------|-------|---------|------|------|----------|------|------|----|-----|------|----|-----|------|------|
|  <p>Z-Fold®<br/>P-MSHA-C-7K-1827*</p> | <b>UL Type TC 3072F</b><br>600V 75°C | NEC:     | 250   | 76.2   | 17.5  | 8.0   | 18 AWG  | .192 | 4.88 | Beldfoil | .324 | 8.23 | 78 | 65% | 19.5 | 64 | 1   | .7   | 2.3  |
|                                                                                                                       |                                      | CMG, ITC | 500   | 152.4  | 34.0  | 15.5  | (7x26)  |      |      | +55%     |      |      |    |     |      |    | 10  | 2.0  | 6.6  |
|                                                                                                                       |                                      | TC, PLTC | 1000  | 304.8  | 69.0  | 31.4  | .046"   |      |      | TC Braid |      |      |    |     |      |    | 50  | 3.8  | 12.5 |
|                                                                                                                       |                                      | CEC:     | 2500  | 762.0  | 170.0 | 77.3  | Tinned  |      |      | (100%    |      |      |    |     |      |    | 100 | 5.5  | 18.0 |
|                                                                                                                       |                                      | CMG FT4  | 5000  | 1524.0 | 345.0 | 156.8 | Copper  |      |      | Shield)  |      |      |    |     |      |    | 200 | 7.8  | 25.6 |
|                                                                                                                       |                                      |          | 10000 | 3048.0 | 710.0 | 322.7 | 6.9Ω/M' |      |      | 3.2Ω/M'  |      |      |    |     |      |    | 400 | 10.8 | 35.4 |

For CPE jacketed version  
order Part No. YM45044.  
CPE jacket optional.

|                                                                                                 |                                      |          |      |        |       |       |         |      |      |          |      |      |     |     |      |      |     |     |      |
|-------------------------------------------------------------------------------------------------|--------------------------------------|----------|------|--------|-------|-------|---------|------|------|----------|------|------|-----|-----|------|------|-----|-----|------|
|  <p>Z-Fold®</p> | <b>UL Type TC 3073F</b><br>600V 75°C | NEC:     | 250  | 76.2   | 21.0  | 9.5   | 18 AWG  | .246 | 6.25 | Beldfoil | .388 | 9.86 | 100 | 65% | 15.3 | 50.2 | 1   | .6  | 1.8  |
|                                                                                                 |                                      | CMG, ITC | 1000 | 304.8  | 85.0  | 38.6  | (7x26)  |      |      | +55%     |      |      |     |     |      |      | 10  | 1.6 | 5.2  |
|                                                                                                 |                                      | TC, PLTC | 5000 | 1524.0 | 420.0 | 190.9 | .046"   |      |      | TC Braid |      |      |     |     |      |      | 50  | 3.0 | 9.8  |
|                                                                                                 |                                      | CEC:     |      |        |       |       | Tinned  |      |      | (100%    |      |      |     |     |      |      | 100 | 4.3 | 14.2 |
|                                                                                                 |                                      | CMG FT4  |      |        |       |       | Copper  |      |      | Shield)  |      |      |     |     |      |      | 200 | 6.1 | 20.1 |
|                                                                                                 |                                      |          |      |        |       |       | 6.9Ω/M' |      |      | 2.9Ω/M'  |      |      |     |     |      |      | 400 | 7.6 | 24.9 |

CPE jacket optional.

|                                                                                                  |                                      |          |      |       |       |       |         |      |      |          |      |       |     |     |      |      |     |     |      |
|--------------------------------------------------------------------------------------------------|--------------------------------------|----------|------|-------|-------|-------|---------|------|------|----------|------|-------|-----|-----|------|------|-----|-----|------|
|  <p>Z-Fold®</p> | <b>UL Type TC 3074F</b><br>600V 75°C | NEC:     | 500  | 152.4 | 52.5  | 23.9  | 18 AWG  | .328 | 8.33 | Beldfoil | .460 | 11.68 | 124 | 65% | 12.3 | 40.3 | 1   | .5  | 1.5  |
|                                                                                                  |                                      | CMG, ITC | 1000 | 304.8 | 100.0 | 45.5  | (7x26)  |      |      | +55%     |      |       |     |     |      |      | 10  | 1.2 | 3.9  |
|                                                                                                  |                                      | TC, PLTC | 2500 | 762.0 | 250.0 | 113.6 | .046"   |      |      | TC Braid |      |       |     |     |      |      | 50  | 2.4 | 7.9  |
|                                                                                                  |                                      | CEC:     |      |       |       |       | Tinned  |      |      | (100%    |      |       |     |     |      |      | 100 | 3.5 | 11.4 |
|                                                                                                  |                                      | CMG FT4  |      |       |       |       | Copper  |      |      | Shield)  |      |       |     |     |      |      | 200 | 4.9 | 16.2 |
|                                                                                                  |                                      |          |      |       |       |       | 6.9Ω/M' |      |      | 2.8Ω/M'  |      |       |     |     |      |      | 400 | 6.8 | 22.4 |

CPE jacket optional.

DCR = DC Resistance • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

\*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification.



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1-800-527-0010

## Industrial Data Solutions® — Industrial Coax

### ControlNet™ Quad Shielded Coax

ControlNet is a high-speed serial communication system for communication between devices that require time-critical application exchange.

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor (stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nominal Capacitance |      | Nominal Attenuation |            |         |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------------------------------------|-----------------|----|---------------------------------|------------|----|---------------|--------------------|---------------------|------|---------------------|------------|---------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                               | Inch            | mm |                                 | Inch       | mm |               |                    | pF/Ft.              | pF/m | MHz                 | dB/100 Ft. | dB/100m |

#### RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel • Duobond® IV\* Quad Shield

| Foam Polyethylene Insulation • PVC Jacket (Black or Intrinsically Safe Blue)      |              |          |       |       |       |      |          |      |      |            |      |      |    |     |      |      |     |      |      |
|-----------------------------------------------------------------------------------|--------------|----------|-------|-------|-------|------|----------|------|------|------------|------|------|----|-----|------|------|-----|------|------|
|  | <b>3092A</b> | NEC:     | 500   | 152.4 | 22.0  | 10.0 | 18 AWG   | .180 | 4.57 | Duobond IV | .298 | 7.57 | 75 | 82% | 16.2 | 53.1 | 1   | .35  | 1.2  |
|                                                                                   |              | CL2R CMR | 1000  | 304.8 | 42.0  | 19.1 | (solid)  |      |      | Quad       |      |      |    |     |      |      | 2   | .38  | 1.3  |
|                                                                                   |              | CEC:     | 2000  | 609.6 | 84.0  | 38.2 | .040"    |      |      | Shield     |      |      |    |     |      |      | 5   | .45  | 1.5  |
|                                                                                   |              | CMG FT4  | 2500▲ | 762.2 | 100.0 | 45.5 | BCCS     |      |      | 3.6Ω/M'    |      |      |    |     |      |      | 10  | .59  | 1.9  |
|                                                                                   |              |          |       |       |       |      | 28.0Ω/M' |      |      | 11.8Ω/km   |      |      |    |     |      |      | 20  | .86  | 2.8  |
|                                                                                   |              |          |       |       |       |      | 91.8Ω/km |      |      |            |      |      |    |     |      |      | 50  | 1.37 | 4.5  |
|                                                                                   |              |          |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 100 | 1.97 | 6.5  |
|                                                                                   |              |          |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 200 | 2.82 | 9.3  |
|                                                                                   |              |          |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 300 | 3.48 | 11.4 |
|                                                                                   |              |          |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 400 | 4.04 | 13.3 |

\*2500 ft. put-up available in Black only.

For Rockwell authorized Flexible ControlNet order YR28890 (Tinned Copper Braid version).

| Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Black or Intrinsically Safe Blue*) |              |         |       |       |       |      |          |      |      |            |      |      |    |     |      |      |     |      |      |
|-------------------------------------------------------------------------------------------|--------------|---------|-------|-------|-------|------|----------|------|------|------------|------|------|----|-----|------|------|-----|------|------|
|          | <b>3093A</b> | NEC:    | 1000• | 304.8 | 40.0  | 18.2 | 18 AWG   | .170 | 4.32 | Duobond IV | .274 | 6.96 | 75 | 82% | 16.3 | 53.5 | 1   | .36  | 1.2  |
|                                                                                           |              | CMP     | 2000  | 609.6 | 80.0  | 36.4 | (solid)  |      |      | Quad       |      |      |    |     |      |      | 2   | .38  | 1.3  |
|                                                                                           |              | CEC:    | 2500  | 762.0 | 100.0 | 45.5 | .040"    |      |      | Shield     |      |      |    |     |      |      | 5   | .50  | 1.6  |
|                                                                                           |              | CMG FT6 |       |       |       |      | BCCS     |      |      | 3.6Ω/M'    |      |      |    |     |      |      | 10  | .65  | 2.1  |
|                                                                                           |              |         |       |       |       |      | 28.0Ω/M' |      |      | 11.8Ω/km   |      |      |    |     |      |      | 20  | .95  | 3.1  |
|                                                                                           |              |         |       |       |       |      | 91.8Ω/km |      |      |            |      |      |    |     |      |      | 50  | 1.50 | 4.9  |
|                                                                                           |              |         |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 100 | 2.12 | 7.0  |
|                                                                                           |              |         |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 200 | 2.99 | 9.8  |
|                                                                                           |              |         |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 300 | 3.66 | 12.0 |
|                                                                                           |              |         |       |       |       |      |          |      |      |            |      |      |    |     |      |      | 400 | 4.23 | 13.9 |

\*Blue available as standard in 1000 ft. only.

Suitable for Outdoor and Direct Burial applications.

#### RG-6/U Type • 20 AWG Stranded (105x40) Bare Copper • Duobond IV\* Quad Shield

| Foam Polyethylene Insulation • PVC Jacket (Black or Intrinsically Safe Blue)        |                     |        |      |        |       |       |          |      |      |            |      |      |    |     |      |      |     |      |      |
|-------------------------------------------------------------------------------------|---------------------|--------|------|--------|-------|-------|----------|------|------|------------|------|------|----|-----|------|------|-----|------|------|
|  | <b>3092F</b><br>new | NEC:   | 1000 | 304.8  | 45.0  | 20.5  | 20 AWG   | .183 | 4.65 | Duobond IV | .303 | 7.70 | 75 | 79% | 17.0 | 55.8 | 1   | .36  | 1.2  |
|                                                                                     |                     | CL2 CM | 5000 | 1524.0 | 225.0 | 102.3 | (105x40) |      |      | Quad       |      |      |    |     |      |      | 2   | .47  | 1.5  |
|                                                                                     |                     | CEC:   |      |        |       |       | .040"    |      |      | Shield     |      |      |    |     |      |      | 5   | .80  | 2.6  |
|                                                                                     |                     | CM     |      |        |       |       | Bare     |      |      | 3.6Ω/M'    |      |      |    |     |      |      | 10  | 1.20 | 3.9  |
|                                                                                     |                     |        |      |        |       |       | Copper   |      |      | 11.8Ω/km   |      |      |    |     |      |      | 20  | 2.00 | 6.6  |
|                                                                                     |                     |        |      |        |       |       | 10.5Ω/M' |      |      |            |      |      |    |     |      |      | 50  | 3.20 | 10.5 |
|                                                                                     |                     |        |      |        |       |       | 34.4Ω/km |      |      |            |      |      |    |     |      |      | 100 | 4.60 | 15.1 |
|                                                                                     |                     |        |      |        |       |       |          |      |      |            |      |      |    |     |      |      | 200 | 6.50 | 21.3 |
|                                                                                     |                     |        |      |        |       |       |          |      |      |            |      |      |    |     |      |      | 300 | 8.00 | 26.2 |
|                                                                                     |                     |        |      |        |       |       |          |      |      |            |      |      |    |     |      |      | 400 | 9.30 | 30.5 |

IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance

\*Duobond IV Quad Shield = Duobond II Foil + 60% aluminum braid + Duofoil + 40% aluminum braid.

ControlNet is a ControlNet International trademark.

**Industrial Data Solutions® — Industrial Coax****ControlBus™ Quad Shielded Coax**

| Description                                                                          | Part No.                                       | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |        | Standard Unit Weight |       | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |      | Shielding<br>Materials<br>Nom. DCR | Nominal OD |      | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|--------------------------------------------------------------------------------------|------------------------------------------------|------------------------------|------------------|--------|----------------------|-------|--------------------------------------------------|-----------------|------|------------------------------------|------------|------|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|                                                                                      |                                                |                              | Ft.              | m      | Lbs.                 | kg    |                                                  | Inch            | mm   |                                    | Inch       | mm   |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |
| <b>RG-6/U Type • 20 AWG</b> Stranded (105x40) Bare Copper • Duobond® IV* Quad Shield |                                                |                              |                  |        |                      |       |                                                  |                 |      |                                    |            |      |                  |                       |                     |      |                     |                |             |
| <b>Foam Polyethylene Insulation • PVC Jacket</b> (Black or Intrinsically Safe Blue)  |                                                |                              |                  |        |                      |       |                                                  |                 |      |                                    |            |      |                  |                       |                     |      |                     |                |             |
|      | <b>High-Flex</b><br><b>3092F</b><br><b>new</b> | NEC:                         | 1000             | 304.8  | 45.0                 | 20.5  | 20 AWG                                           | .183            | 4.65 | Duobond IV                         | .303       | 7.70 | 75               | 79%                   | 17.0                | 55.8 | 1                   | .36            | 1.2         |
|                                                                                      |                                                | CL2 CM                       | 5000             | 1524.0 | 225.0                | 102.3 | (105x40)                                         |                 |      | Quad                               |            |      |                  |                       |                     |      | 2                   | .47            | 1.5         |
|                                                                                      |                                                | CEC:                         |                  |        |                      |       | .040"                                            |                 |      | Shield                             |            |      |                  |                       |                     |      | 5                   | .80            | 2.6         |
|                                                                                      |                                                | CM                           |                  |        |                      |       | Bare                                             |                 |      | 3.6Ω/M'                            |            |      |                  |                       |                     |      | 10                  | 1.20           | 3.9         |
|                                                                                      |                                                |                              |                  |        |                      |       | Copper                                           |                 |      | 11.8Ω/km                           |            |      |                  |                       |                     |      | 20                  | 2.00           | 6.6         |
|                                                                                      |                                                |                              |                  |        |                      |       | 10.5Ω/M'                                         |                 |      |                                    |            |      |                  |                       |                     |      | 50                  | 3.20           | 10.5        |
|                                                                                      |                                                |                              |                  |        |                      |       | 34.4Ω/km                                         |                 |      |                                    |            |      |                  |                       |                     |      | 100                 | 4.60           | 15.1        |
|                                                                                      |                                                |                              |                  |        |                      |       |                                                  |                 |      |                                    |            |      |                  |                       |                     |      | 200                 | 6.50           | 21.3        |
|                                                                                      |                                                |                              |                  |        |                      |       |                                                  |                 |      |                                    |            |      |                  |                       |                     |      | 300                 | 8.00           | 26.2        |
|                                                                                      |                                                |                              |                  |        |                      |       |                                                  |                 |      |                                    |            |      |                  |                       |                     |      | 400                 | 9.30           | 30.5        |
| IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.                                                  |                                                |                              |                  |        |                      |       |                                                  |                 |      |                                    |            |      |                  |                       |                     |      |                     |                |             |

IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.

**RG-6/U Type • 18 AWG** Solid Bare Copper-covered Steel • Duobond IV\* Quad Shield

|                                                                                  |              |                                     |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      |     |      |      |
|----------------------------------------------------------------------------------|--------------|-------------------------------------|-------------------|-------|------|------|-------------------|------|------|------------|------|------|----|-----|------|------|-----|------|------|
| <b>Foam Polyethylene Insulation • Gray PVC Jacket</b>                            |              |                                     |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      |     |      |      |
|  | <b>3131A</b> | NEC:<br>CL2R CMR<br>CEC:<br>CMR FT4 | 1000 <sup>†</sup> | 304.8 | 41.0 | 18.6 | 18 AWG<br>(solid) | .180 | 4.57 | Duobond IV | .298 | 7.57 | 75 | 82% | 16.2 | 53.1 | 1   | .35  | 1.2  |
|                                                                                  |              |                                     | 2500              | 762.2 | 97.5 | 44.3 | .040"             |      |      | Quad       |      |      |    |     |      |      | 2   | .38  | 1.3  |
|                                                                                  |              |                                     |                   |       |      |      | BCCS              |      |      | Shield     |      |      |    |     |      |      | 5   | .45  | 1.5  |
|                                                                                  |              |                                     |                   |       |      |      | 28.0Ω/M'          |      |      | 3.6Ω/M'    |      |      |    |     |      |      | 10  | .59  | 1.9  |
|                                                                                  |              |                                     |                   |       |      |      | 91.8Ω/km          |      |      | 11.8Ω/km   |      |      |    |     |      |      | 20  | .86  | 2.8  |
|                                                                                  |              |                                     |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 50  | 1.37 | 4.5  |
|                                                                                  |              |                                     |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 100 | 1.97 | 6.5  |
|                                                                                  |              |                                     |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 200 | 2.82 | 9.3  |
|                                                                                  |              |                                     |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 300 | 3.48 | 11.4 |
|                                                                                  |              |                                     |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 400 | 4.04 | 13.3 |

IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.

Tap marks every 2.6 meters to aid users in installation.

|                                                                                    |              |                                |      |       |      |      |                   |      |      |            |      |      |    |     |      |      |     |      |      |
|------------------------------------------------------------------------------------|--------------|--------------------------------|------|-------|------|------|-------------------|------|------|------------|------|------|----|-----|------|------|-----|------|------|
| <b>Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket</b>                  |              |                                |      |       |      |      |                   |      |      |            |      |      |    |     |      |      |     |      |      |
|  | <b>3132A</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1000 | 304.8 | 36.0 | 16.4 | 18 AWG<br>(solid) | .170 | 4.32 | Duobond IV | .274 | 6.96 | 75 | 82% | 16.3 | 53.5 | 1   | .36  | 1.2  |
|                                                                                    |              |                                |      |       |      |      | .040"             |      |      | Quad       |      |      |    |     |      |      | 2   | .38  | 1.3  |
|                                                                                    |              |                                |      |       |      |      | BCCS              |      |      | Shield     |      |      |    |     |      |      | 5   | .50  | 1.6  |
|                                                                                    |              |                                |      |       |      |      | 28.0Ω/M'          |      |      | 3.6Ω/M'    |      |      |    |     |      |      | 10  | .65  | 2.1  |
|                                                                                    |              |                                |      |       |      |      | 91.8Ω/km          |      |      | 11.8Ω/km   |      |      |    |     |      |      | 20  | .95  | 3.1  |
|                                                                                    |              |                                |      |       |      |      |                   |      |      |            |      |      |    |     |      |      | 50  | 1.50 | 4.9  |
|                                                                                    |              |                                |      |       |      |      |                   |      |      |            |      |      |    |     |      |      | 100 | 2.12 | 7.0  |
|                                                                                    |              |                                |      |       |      |      |                   |      |      |            |      |      |    |     |      |      | 200 | 2.99 | 9.8  |
|                                                                                    |              |                                |      |       |      |      |                   |      |      |            |      |      |    |     |      |      | 300 | 3.66 | 12.0 |
|                                                                                    |              |                                |      |       |      |      |                   |      |      |            |      |      |    |     |      |      | 400 | 4.23 | 13.9 |

IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.

Tap marks every 2.6 meters to aid users in installation.

Suitable for Outdoor and Direct Burial applications.

**RG-11/U Type • 14 AWG** Solid Bare Copper-covered Steel • Duobond IV\* Quad Shield

|                                                                                    |              |                                     |                   |       |       |      |                   |      |      |            |      |       |    |     |      |      |     |      |     |
|------------------------------------------------------------------------------------|--------------|-------------------------------------|-------------------|-------|-------|------|-------------------|------|------|------------|------|-------|----|-----|------|------|-----|------|-----|
| <b>Foam Polyethylene Insulation • Gray PVC Jacket</b>                              |              |                                     |                   |       |       |      |                   |      |      |            |      |       |    |     |      |      |     |      |     |
|  | <b>3094A</b> | NEC:<br>CL2R CMR<br>CEC:<br>CMG FT4 | 500 <sup>†</sup>  | 152.4 | 31.0  | 14.1 | 14 AWG<br>(solid) | .280 | 7.11 | Duobond IV | .407 | 10.34 | 75 | 82% | 16.2 | 53.1 | 1   | .30  | 1.0 |
|                                                                                    |              |                                     | 1000 <sup>†</sup> | 304.8 | 62.0  | 28.2 | .064"             |      |      | Quad       |      |       |    |     |      |      | 2   | .32  | 1.0 |
|                                                                                    |              |                                     | 2000              | 609.6 | 120.0 | 54.5 | BCCS              |      |      | Shield     |      |       |    |     |      |      | 5   | .40  | 1.3 |
|                                                                                    |              |                                     |                   |       |       |      | 11.0Ω/M'          |      |      | 1.8Ω/M'    |      |       |    |     |      |      | 10  | .60  | 2.0 |
|                                                                                    |              |                                     |                   |       |       |      | 36.1Ω/km          |      |      | 5.9Ω/km    |      |       |    |     |      |      | 20  | .71  | 2.3 |
|                                                                                    |              |                                     |                   |       |       |      |                   |      |      |            |      |       |    |     |      |      | 50  | .90  | 3.0 |
|                                                                                    |              |                                     |                   |       |       |      |                   |      |      |            |      |       |    |     |      |      | 100 | 1.20 | 3.9 |
|                                                                                    |              |                                     |                   |       |       |      |                   |      |      |            |      |       |    |     |      |      | 200 | 1.70 | 5.9 |
|                                                                                    |              |                                     |                   |       |       |      |                   |      |      |            |      |       |    |     |      |      | 300 | 2.08 | 6.8 |
|                                                                                    |              |                                     |                   |       |       |      |                   |      |      |            |      |       |    |     |      |      | 400 | 2.40 | 7.9 |

IEEE 802.4 MAP

Tap marks every 2.6 meters to aid users in installation.

|                                                                                    |              |                                |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      |     |      |      |
|------------------------------------------------------------------------------------|--------------|--------------------------------|-------------------|-------|------|------|-------------------|------|------|------------|------|------|----|-----|------|------|-----|------|------|
| <b>Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket</b>                  |              |                                |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      |     |      |      |
|  | <b>3095A</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 1000 <sup>†</sup> | 304.8 | 76.0 | 34.5 | 14 AWG<br>(solid) | .280 | 7.11 | Duobond IV | .387 | 9.83 | 75 | 82% | 16.5 | 54.1 | 1   | .20  | .7   |
|                                                                                    |              |                                |                   |       |      |      | .064"             |      |      | Quad       |      |      |    |     |      |      | 2   | .22  | .7   |
|                                                                                    |              |                                |                   |       |      |      | BCCS              |      |      | Shield     |      |      |    |     |      |      | 5   | .28  | .9   |
|                                                                                    |              |                                |                   |       |      |      | 11.0Ω/M'          |      |      | 1.8Ω/M'    |      |      |    |     |      |      | 10  | .39  | 1.3  |
|                                                                                    |              |                                |                   |       |      |      | 36.1Ω/km          |      |      | 5.9Ω/km    |      |      |    |     |      |      | 20  | .60  | 2.0  |
|                                                                                    |              |                                |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 50  | 1.20 | 3.9  |
|                                                                                    |              |                                |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 100 | 1.70 | 5.6  |
|                                                                                    |              |                                |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 200 | 2.50 | 8.2  |
|                                                                                    |              |                                |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 300 | 3.04 | 10.0 |
|                                                                                    |              |                                |                   |       |      |      |                   |      |      |            |      |      |    |     |      |      | 400 | 3.50 | 11.5 |

IEEE 802.4 MAP

Tap marks every 2.6 meters to aid users in installation.

Suitable for Outdoor and Direct Burial applications.

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene

\*Duobond IV Quad Shield = Duobond II Foil + 60% aluminum braid + Duofoil® + 40% aluminum braid.

†Spools are one piece, but length may vary ±10% from length shown.



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## Industrial Data Solutions® — Industrial Data

### DataBus® ISA/SP-50 Fieldbus\* or Profibus Cables

Fieldbus is a standardized digital communications protocol that enables a simple pair of wires to power and carry the communication signals between field devices and a control room.

Profibus is one of the largest open industrial fieldbus networks in the world.

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor (stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nominal Capacitance |      | Nominal Attenuation |            |         |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------------------------------------------|-----------------|----|---------------------------------|------------|----|---------------|--------------------|---------------------|------|---------------------|------------|---------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                               | Inch            | mm |                                 | Inch       | mm |               |                    | pF/Ft.              | pF/m | MHz                 | dB/100 Ft. | dB/100m |

#### Fieldbus®/Profibus PA • 18 AWG Stranded (7x26) Tinned Copper • Beldfoil® (100% Shield Coverage) • Tinned Copper Drain Wire

##### Polyolefin Insulation • Orange or Blue PVC Jacket (Color Code: Blue, Orange)

|                   |              |         |      |        |       |      |          |   |   |          |      |      |           |     |      |      |      |     |     |
|-------------------|--------------|---------|------|--------|-------|------|----------|---|---|----------|------|------|-----------|-----|------|------|------|-----|-----|
| <b>Type A</b>     | <b>3076F</b> | NEC:    | 250  | 76.2   | 10.5  | 4.8  | 18 AWG   | — | — | 100%     | .253 | 6.43 | 100 @     | 66% | 24.0 | 78.7 | .039 | .08 | .26 |
| 300V 75°C         |              | PLTC CM | 500  | 152.4  | 18.5  | 8.4  | (7x26)   |   |   | Beldfoil |      |      | 31.25 KHz |     |      |      |      |     |     |
| (31.25 KBits/sec) |              | ITC     | 1000 | 304.8  | 34.0  | 15.5 | .048"    |   |   | Shield   |      |      |           |     |      |      |      |     |     |
|                   |              | CEC:    | 2500 | 762.0  | 85.0  | 38.6 | Tinned   |   |   | 7.5Ω/M'  |      |      |           |     |      |      |      |     |     |
|                   |              | CM      | 5000 | 1524.0 | 170.0 | 77.3 | Copper   |   |   | 24.6Ω/km |      |      |           |     |      |      |      |     |     |
|                   |              |         |      |        |       |      | 7.3Ω/M'  |   |   |          |      |      |           |     |      |      |      |     |     |
|                   |              |         |      |        |       |      | 24.0Ω/km |   |   |          |      |      |           |     |      |      |      |     |     |



Shorting Fold

Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket.

CPE jacket optional.

#### Fieldbus® • 22 AWG Stranded (7x30) Tinned Copper • Beldfoil (100% Shield Coverage) • Tinned Copper Drain Wire

##### Polyolefin Insulation • Orange PVC Jacket (Color Code: Blue, Orange)

|                   |              |         |      |       |      |      |          |   |   |          |      |      |           |     |      |      |      |     |     |
|-------------------|--------------|---------|------|-------|------|------|----------|---|---|----------|------|------|-----------|-----|------|------|------|-----|-----|
| <b>Type B</b>     | <b>3077F</b> | NEC:    | 500  | 152.4 | 11.0 | 5.0  | 22 AWG   | — | — | 100%     | .196 | 4.97 | 100 @     | 66% | 23.5 | 77.1 | .039 | .14 | .45 |
| 300V 75°C         |              | PLTC CM | 1000 | 304.8 | 23.0 | 10.5 | (7x30)   |   |   | Beldfoil |      |      | 31.25 KHz |     |      |      |      |     |     |
| (31.25 KBits/sec) |              | ITC     |      |       |      |      | .030"    |   |   | Shield   |      |      |           |     |      |      |      |     |     |
|                   |              | CEC:    |      |       |      |      | Tinned   |   |   | 11.4Ω/M' |      |      |           |     |      |      |      |     |     |
|                   |              | CM      |      |       |      |      | Copper   |   |   | 37.4Ω/km |      |      |           |     |      |      |      |     |     |
|                   |              |         |      |       |      |      | 17.1Ω/M' |   |   |          |      |      |           |     |      |      |      |     |     |
|                   |              |         |      |       |      |      | 56.0Ω/km |   |   |          |      |      |           |     |      |      |      |     |     |



Shorting Fold

CPE jacket optional.

#### Cellular Polyolefin Insulation • Orange PVC Jacket (Color Code: Blue, Orange)

|                       |              |         |      |       |       |      |          |   |   |          |      |      |       |     |     |      |       |     |      |
|-----------------------|--------------|---------|------|-------|-------|------|----------|---|---|----------|------|------|-------|-----|-----|------|-------|-----|------|
| <b>High Speed▲</b>    | <b>3078F</b> | NEC:    | 250  | 76.2  | 12.0  | 5.5  | 22 AWG   | — | — | 100%     | .351 | 8.92 | 150 @ | 78% | 8.5 | 27.9 | .250  | .18 | .59  |
| 300V 75°C             |              | PLTC CM | 500  | 152.4 | 23.0  | 10.5 | (7x30)   |   |   | Beldfoil |      |      | 1 MHz |     |     |      | .625  | .26 | .85  |
| (1.0 & 2.5 MBits/sec) |              | ITC     | 1000 | 304.8 | 44.0  | 20.0 | .030"    |   |   | Shield   |      |      |       |     |     |      | 1.250 | .34 | 1.12 |
|                       |              | CEC:    | 2500 | 762.0 | 115.0 | 52.3 | Tinned   |   |   | 3.3Ω/M'  |      |      |       |     |     |      | 3.125 | .55 | 1.81 |
|                       |              | CM      |      |       |       |      | Copper   |   |   | 11.1Ω/km |      |      |       |     |     |      |       |     |      |
|                       |              |         |      |       |       |      | 17.1Ω/M' |   |   |          |      |      |       |     |     |      |       |     |      |
|                       |              |         |      |       |       |      | 56.0Ω/km |   |   |          |      |      |       |     |     |      |       |     |      |



Shorting Fold

CPE jacket optional.

#### Profibus DP • 22 AWG Solid Bare Copper • Beldfoil + 65% Tinned Copper Braid Shield (100% Shield Coverage)

##### Cellular Polyolefin Insulation • Chrome or Violet PVC Jacket (Color Code: Red, Green)

|           |              |          |      |        |       |      |          |      |      |           |      |      |     |     |     |      |       |      |      |
|-----------|--------------|----------|------|--------|-------|------|----------|------|------|-----------|------|------|-----|-----|-----|------|-------|------|------|
| 300V 75°C | <b>3079A</b> | NEC:     | 1000 | 304.8  | 46.0  | 20.9 | 22 AWG   | .198 | 5.03 | Beldfoil  | .315 | 8.00 | 150 | 78% | 9.0 | 29.5 | .2    | .27  | .9   |
|           |              | PLTC CMG | 2000 | 609.6  | 94.0  | 42.7 | (solid)  |      |      | + 65%     |      |      |     |     |     |      | 4.0   | .67  | 2.2  |
|           |              | CEC:     | 3600 | 1097.6 | 169.2 | 76.9 | .026"    |      |      | TC Braid  |      |      |     |     |     |      | 16.0  | 1.37 | 4.5  |
|           |              | CMG FT4  |      |        |       |      | Bare     |      |      | Shield    |      |      |     |     |     |      | 100.0 | 3.75 | 12.3 |
|           |              |          |      |        |       |      | Copper   |      |      | (100%     |      |      |     |     |     |      | 300.0 | 6.52 | 21.4 |
|           |              |          |      |        |       |      | 16.0Ω/M' |      |      | Coverage) |      |      |     |     |     |      |       |      |      |
|           |              |          |      |        |       |      | 52.5Ω/km |      |      | 3.9Ω/M'   |      |      |     |     |     |      |       |      |      |
|           |              |          |      |        |       |      |          |      |      | 12.8Ω/km  |      |      |     |     |     |      |       |      |      |

Siemens Sinec L2 cable.

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance Unbalance not per ISA/SP-50 Fieldbus

▲ For HSE, see Industrial Ethernet Section for copper and fiber cables.

For CPE jacketed version  
order Part No. YR45047.

For LSOH (FRNC) jacketed version,  
order Part No. YR44731.

# Industrial Data Solutions® — Industrial Data

## DeviceBus® for ODVA DeviceNet™

DeviceNet is an open industrial network standard that addresses all kinds of field devices. It allows interchangeability of simple devices and total direct connectivity of larger, more complex communication links.

### Features and Benefits

- Data and power in one cable
- Reduced cable and installation costs
- Twisted and shielded for noise immunity (round versions)
- Easier connectivity (flat versions)
- Fully compliant with ODVA specs

### DeviceNet Communications Rate Table

| Communications Rate | Maximum Distance |     |       |     |       |     |       |     |       |     |             |     |       |     |       |     |       |     |       |     |
|---------------------|------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                     | 3082A            |     | 3082F |     | 3082K |     | 3083A |     | 3084F |     | 3084A/3085A |     | 7895A |     | 7896A |     | 7897A |     | 7900A |     |
|                     | Ft.              | m   | Ft.   | m   | Ft.   | m   | Ft.   | m   | Ft.   | m   | Ft.         | m   | Ft.   | m   | Ft.   | m   | Ft.   | m   | Ft.   | m   |
| 125 Kbps            | 1640             | 500 | 1640  | 500 | 1378  | 420 | 1640  | 500 | 328   | 100 | 328         | 100 | 984   | 300 | 1378  | 420 | 1640  | 500 | 328   | 100 |
| 250 Kbps            | 820              | 250 | 820   | 250 | 656   | 200 | 820   | 250 | 328   | 100 | 328         | 100 | 820   | 250 | 656   | 200 | 820   | 250 | 328   | 100 |
| 500 Kbps            | 328              | 100 | 328   | 100 | 328   | 100 | 328   | 100 | 328   | 100 | 328         | 100 | 328   | 100 | 328   | 100 | 328   | 100 | 328   | 100 |

| Description | Part No. | UL NEC/ C(UL) CEC Type | Standard Lengths |   | Standard Unit Weight |    | Conductor (stranding) Diameter Nom. DCR | Shielding Materials Nom. DCR | Color Code | Nominal OD |    | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nominal Capacitance |      | Nominal Attenuation |            |         |
|-------------|----------|------------------------|------------------|---|----------------------|----|-----------------------------------------|------------------------------|------------|------------|----|---------------|--------------------|---------------------|------|---------------------|------------|---------|
|             |          |                        | Ft.              | m | Lbs.                 | kg |                                         |                              |            | Inch       | mm |               |                    | pF/Ft.              | pF/m | MHz                 | dB/100 Ft. | dB/100m |

**600V Class 1 Thick • 15 and 18 AWG Stranded Tinned Copper • 100% Individually Foil Shielded + Overall 65% TC Braid • Drain Wire\***

**PVC/Nylon Insulation (Power) • FEP Insulation (Data) • Lt. Gray Sunlight/Oil-resistant PVC Jacket**

|                                                                                                                               |                                    |         |      |       |       |       |                      |               |                       |      |       |     |           |      |      |       |     |      |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------|------|-------|-------|-------|----------------------|---------------|-----------------------|------|-------|-----|-----------|------|------|-------|-----|------|
| <b>High Velocity Thick</b><br>600V 75°C<br> | <b>7897A</b><br><small>new</small> | NEC: TC | 500  | 152.4 | 63.5  | 28.9  | (2)15 AWG TC         | 100%          | Power Pair: Red/Black | .440 | 11.18 | 120 | —         | 12.0 | 39.4 | .125  | .13 | .43  |
|                                                                                                                               |                                    |         | 1000 | 304.8 | 124.0 | 56.4  | (19x28)              | Individual    |                       |      |       |     |           |      |      | .500  | .25 | .82  |
|                                                                                                                               |                                    |         | 2000 | 609.6 | 250.0 | 113.6 | 3.6Ω/M'              | Foil          |                       |      |       |     |           |      |      | 1.000 | .40 | 1.31 |
|                                                                                                                               |                                    |         |      |       |       |       | 11.8Ω/km             | + Overall 65% |                       |      |       |     |           |      |      |       |     |      |
|                                                                                                                               |                                    |         |      |       |       |       | (2)18 AWG TC (19x30) | TC Braid      | Data Pair: Blue/White |      |       |     | Data: 75% |      |      |       |     |      |
|                                                                                                                               |                                    |         |      |       |       |       | 6.9Ω/M'              | 1.8Ω/M'       |                       |      |       |     |           |      |      |       |     |      |
|                                                                                                                               |                                    |         |      |       |       |       | 22.6Ω/km             | 5.7Ω/km       |                       |      |       |     |           |      |      |       |     |      |

\*18 AWG stranded (19x30) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.

**600V Class 1 ODVA Cable V • 16 and 18 AWG Stranded Tinned Copper • 100% Individually Foil Shielded + Overall 65% TC Braid • Drain Wire\***

**PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Lt. Gray Sunlight/Oil-resistant PVC Jacket**

|                                                                                                                       |                                    |         |      |       |       |       |                      |               |                       |      |       |     |           |      |      |       |     |      |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------|---------|------|-------|-------|-------|----------------------|---------------|-----------------------|------|-------|-----|-----------|------|------|-------|-----|------|
| <b>Open Wiring</b><br>600V 75°C<br> | <b>7896A</b><br><small>new</small> | NEC: TC | 500  | 152.4 | 70.0  | 31.8  | (2)16 AWG TC         | 100%          | Power Pair: Red/Black | .502 | 12.75 | 120 | —         | 14.7 | 48.2 | .125  | .13 | .43  |
|                                                                                                                       |                                    |         | 1000 | 304.8 | 136.0 | 64.8  | (19x29)              | Individual    |                       |      |       |     |           |      |      | .500  | .25 | .82  |
|                                                                                                                       |                                    |         | 2000 | 609.6 | 276.0 | 125.5 | 4.9Ω/M'              | Foil          |                       |      |       |     |           |      |      | 1.000 | .40 | 1.31 |
|                                                                                                                       |                                    |         |      |       |       |       | 16.1Ω/km             | + Overall 65% |                       |      |       |     |           |      |      |       |     |      |
|                                                                                                                       |                                    |         |      |       |       |       | (2)18 AWG TC (19x30) | TC Braid      | Data Pair: Blue/White |      |       |     | Data: 64% |      |      |       |     |      |
|                                                                                                                       |                                    |         |      |       |       |       | 6.9Ω/M'              | 1.8Ω/M'       |                       |      |       |     |           |      |      |       |     |      |
|                                                                                                                       |                                    |         |      |       |       |       | 22.6Ω/km             | 5.7Ω/km       |                       |      |       |     |           |      |      |       |     |      |

C(UL) AWM I/II A/B  
\*18 AWG stranded (19x30) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.

**600V Class 1 ODVA Cable IV • 16 and 18 AWG Stranded Tinned Copper • Unshielded**

**PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Lt. Gray Sunlight/Oil-resistant PVC Jacket**

|                                                                                                                |                                    |         |      |       |      |      |                      |            |                       |      |       |     |           |      |      |       |     |      |
|----------------------------------------------------------------------------------------------------------------|------------------------------------|---------|------|-------|------|------|----------------------|------------|-----------------------|------|-------|-----|-----------|------|------|-------|-----|------|
| <b>Drop</b><br>600V 75°C<br> | <b>7900A</b><br><small>new</small> | NEC: TC | 500  | 152.4 | 45.0 | 20.5 | (2)16 AWG TC         | Unshielded | Power Pair: Red/Black | .430 | 10.92 | 120 | —         | 14.7 | 48.2 | .125  | .13 | .43  |
|                                                                                                                |                                    |         | 1000 | 304.8 | 92.0 | 41.8 | (19x29)              |            |                       |      |       |     |           |      |      | .500  | .25 | .82  |
|                                                                                                                |                                    |         |      |       |      |      | 4.9Ω/M'              |            |                       |      |       |     |           |      |      | 1.000 | .40 | 1.31 |
|                                                                                                                |                                    |         |      |       |      |      | 16.1Ω/km             |            |                       |      |       |     |           |      |      |       |     |      |
|                                                                                                                |                                    |         |      |       |      |      | (2)18 AWG TC (19x30) |            | Data Pair: Blue/White |      |       |     | Data: 64% |      |      |       |     |      |
|                                                                                                                |                                    |         |      |       |      |      | 6.9Ω/M'              |            |                       |      |       |     |           |      |      |       |     |      |
|                                                                                                                |                                    |         |      |       |      |      | 22.6Ω/km             |            |                       |      |       |     |           |      |      |       |     |      |

Meter marks on jacket to aid users in installation.

DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • F-R = Flame-retardant • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.



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**1-800-527-0010**



**Industrial Data Solutions® — Industrial Data**

DeviceBus® for ODVA DeviceNet™

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Shielding<br>Materials<br>Nom. DCR | Color<br>Code | Nominal<br>OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|------------------------------------|---------------|---------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  |                                    |               | Inch          | mm |                     |                             | pF/Ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

**300V Class 2 Thick • 15 and 18 AWG Stranded Tinned Copper • 100% Individually Foil Shielded + Overall 65% TC Braid • Drain Wire\*****PVC Insulation (Power) • FPE Insulation (Data) • Lt. Gray Sunlight/Oil-resistant PVC Jacket**

|               |                                    |                                      |                     |                         |                        |                       |                                                                                                  |                                                                                  |                                                          |               |     |   |              |                       |                   |                    |
|---------------|------------------------------------|--------------------------------------|---------------------|-------------------------|------------------------|-----------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|---------------|-----|---|--------------|-----------------------|-------------------|--------------------|
| Thick<br>75°C | <b>3082A</b><br><small>new</small> | NEC:<br>CMG, PLTC<br>CEC:<br>CMG FT4 | 500<br>1000<br>2000 | 152.4<br>304.8<br>609.6 | 64.0<br>128.0<br>260.0 | 29.1<br>58.2<br>118.2 | (2)15 AWG TC<br>(19x28)<br>3.6Ω/M'<br>11.8Ω/km<br>(2)18 AWG TC<br>(19x30)<br>6.9Ω/M'<br>22.6Ω/km | 100%<br>Individual<br>Foil<br>+ Overall<br>65%<br>TC Braid<br>1.8Ω/M'<br>5.9Ω/km | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .460<br>11.68 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .13<br>.25<br>.36 | .43<br>.82<br>1.18 |
|---------------|------------------------------------|--------------------------------------|---------------------|-------------------------|------------------------|-----------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|---------------|-----|---|--------------|-----------------------|-------------------|--------------------|



UL AWM 20201 • C(UL) AWM I/II A  
 \*18 AWG stranded (19x30) tinned copper drain wire.  
 Meter marks on jacket to aid users in installation.

|                            |                                    |                                      |                     |                         |                        |                       |                                                                                                  |                                                                                  |                                                          |               |     |   |              |                       |                   |                    |
|----------------------------|------------------------------------|--------------------------------------|---------------------|-------------------------|------------------------|-----------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|---------------|-----|---|--------------|-----------------------|-------------------|--------------------|
| High-Flex<br>Thick<br>75°C | <b>3082F</b><br><small>new</small> | NEC:<br>CMG, PLTC<br>CEC:<br>CMG FT4 | 500<br>1000<br>2000 | 152.4<br>304.8<br>609.6 | 72.0<br>140.0<br>284.0 | 32.7<br>63.6<br>129.1 | (2)15 AWG TC<br>(65x33)<br>3.6Ω/M'<br>11.8Ω/km<br>(2)18 AWG TC<br>(65x36)<br>6.9Ω/M'<br>22.6Ω/km | 100%<br>Individual<br>Foil<br>+ Overall<br>65%<br>TC Braid<br>1.8Ω/M'<br>5.9Ω/km | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .460<br>12.07 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .13<br>.25<br>.36 | .43<br>.82<br>1.18 |
|----------------------------|------------------------------------|--------------------------------------|---------------------|-------------------------|------------------------|-----------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|---------------|-----|---|--------------|-----------------------|-------------------|--------------------|



UL AWM 20201 • C(UL) AWM I/II A  
 \*18 AWG stranded (65x36) tinned copper drain wire.  
 Meter marks on jacket to aid users in installation.

**PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket**

|               |              |                                      |              |                |                |               |                                                                                                  |                                                                                  |                                                          |               |     |   |              |                       |                   |                    |
|---------------|--------------|--------------------------------------|--------------|----------------|----------------|---------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|---------------|-----|---|--------------|-----------------------|-------------------|--------------------|
| Thick<br>80°C | <b>3083A</b> | NEC:<br>CMG, PLTC<br>CEC:<br>CMG FT4 | 1000<br>2000 | 304.8<br>609.6 | 133.0<br>270.0 | 60.5<br>122.7 | (2)15 AWG TC<br>(19x28)<br>3.6Ω/M'<br>11.8Ω/km<br>(2)18 AWG TC<br>(19x30)<br>6.9Ω/M'<br>22.6Ω/km | 100%<br>Individual<br>Foil<br>+ Overall<br>65%<br>TC Braid<br>1.8Ω/M'<br>5.9Ω/km | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .475<br>12.07 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .13<br>.25<br>.36 | .43<br>.82<br>1.18 |
|---------------|--------------|--------------------------------------|--------------|----------------|----------------|---------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|---------------|-----|---|--------------|-----------------------|-------------------|--------------------|



\*18 AWG stranded (19x30) tinned copper drain wire.  
 Meter marks on jacket to aid users in installation.

DCR = DC Resistance • FPE = Foam Polyethylene • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.



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DeviceBus® for ODVA DeviceNet™

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Shielding<br>Materials<br>Nom. DCR | Color<br>Code | Nominal<br>OD |    | Nom.<br>Imp.<br>(Ω) | Nom.<br>Vel.<br>of<br>Prop. | Nominal<br>Capacitance |      | Nominal<br>Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|------------------------------------|---------------|---------------|----|---------------------|-----------------------------|------------------------|------|------------------------|----------------|-------------|
|             |          |                              | ft.              | m | Lbs.                 | kg |                                                  |                                    |               | Inch          | mm |                     |                             | pF/ft.                 | pF/m | MHz                    | dB/<br>100 Ft. | dB/<br>100m |

## 300V Class 2 Thin • 22 and 24 AWG Stranded Tinned Copper • 100% Individually Foil Shielded + Overall 65% TC Braid • Drain Wire\*

### PVC Insulation (Power) • FPE Insulation (Data) • Lt. Gray Sunlight/Oil-resistant PVC Jacket

|              |              |                                    |                     |                         |                       |                      |                                                                                                      |                                                                                   |                                                          |              |     |   |              |                       |                   |                     |
|--------------|--------------|------------------------------------|---------------------|-------------------------|-----------------------|----------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|
| Thin<br>75°C | <b>3084A</b> | NEC:<br>CL2 CMG<br>CEC:<br>CMG FT4 | 500<br>1000<br>2000 | 152.4<br>304.8<br>609.6 | 26.0<br>49.0<br>100.0 | 11.8<br>22.3<br>45.5 | (2)22 AWG TC<br>(154x44)<br>17.5Ω/M'<br>57.4Ω/km<br>(2)24 AWG TC<br>(105x44)<br>28.0Ω/M'<br>91.9Ω/km | 100%<br>Individual<br>Foil<br>+ Overall<br>65%<br>TC Braid<br>3.2Ω/M'<br>10.5Ω/km | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .280<br>7.11 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .29<br>.50<br>.70 | .95<br>1.64<br>2.30 |
|--------------|--------------|------------------------------------|---------------------|-------------------------|-----------------------|----------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|



C(UL) AWM I/II A

\*22 AWG stranded (19x34) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.

|                           |                            |                                    |                     |                         |                      |                      |                                                                                                      |                                                                                   |                                                          |              |     |   |              |                       |                   |                     |
|---------------------------|----------------------------|------------------------------------|---------------------|-------------------------|----------------------|----------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|
| High-Flex<br>Thin<br>75°C | <b>3084F</b><br><b>new</b> | NEC:<br>CL2 CMG<br>CEC:<br>CMG FT4 | 500<br>1000<br>2000 | 152.4<br>304.8<br>609.6 | 23.5<br>45.0<br>90.0 | 10.7<br>20.5<br>40.9 | (2)22 AWG TC<br>(154x44)<br>17.5Ω/M'<br>57.4Ω/km<br>(2)24 AWG TC<br>(105x44)<br>28.0Ω/M'<br>91.9Ω/km | 100%<br>Individual<br>Foil<br>+ Overall<br>65%<br>TC Braid<br>3.2Ω/M'<br>10.5Ω/km | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .275<br>6.99 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .29<br>.50<br>.70 | .95<br>1.64<br>2.30 |
|---------------------------|----------------------------|------------------------------------|---------------------|-------------------------|----------------------|----------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|



C(UL) AWM I/II A

\*22 AWG stranded (26x36) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.

### PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket

|              |              |                                    |                     |                         |                      |                      |                                                                                                      |                                                                                   |                                                          |              |     |   |              |                       |                   |                     |
|--------------|--------------|------------------------------------|---------------------|-------------------------|----------------------|----------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|
| Thin<br>80°C | <b>3085A</b> | NEC:<br>CL2 CMG<br>CEC:<br>CMG FT4 | 500<br>1000<br>2000 | 152.4<br>304.8<br>609.6 | 25.0<br>47.0<br>96.0 | 11.4<br>21.4<br>43.6 | (2)22 AWG TC<br>(154x44)<br>17.5Ω/M'<br>57.4Ω/km<br>(2)24 AWG TC<br>(105x44)<br>28.0Ω/M'<br>91.9Ω/km | 100%<br>Individual<br>Foil<br>+ Overall<br>65%<br>TC Braid<br>3.2Ω/M'<br>10.5Ω/km | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .280<br>7.11 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .29<br>.50<br>.70 | .95<br>1.64<br>2.30 |
|--------------|--------------|------------------------------------|---------------------|-------------------------|----------------------|----------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|



\*22 AWG stranded (19x34) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.

## 300V Class 2 ODVA Cable III • 20 and 18 AWG Stranded TC • 100% Individually Foil Shielded + Overall 65% TC Braid • Drain Wire\*

### PVC Insulation (Power) • FPE Insulation (Data) • Lt. Gray Sunlight/Oil-resistant PVC Jacket

|             |                            |                                     |             |                |              |              |                                                                                                   |                                                                                   |                                                          |              |     |   |              |                       |                   |                     |
|-------------|----------------------------|-------------------------------------|-------------|----------------|--------------|--------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|
| Mid<br>75°C | <b>7895A</b><br><b>new</b> | NEC:<br>CMG PLTC<br>CEC:<br>CMG FT4 | 500<br>1000 | 152.4<br>304.8 | 42.0<br>83.0 | 19.1<br>37.7 | (2)20 AWG TC<br>(19x32)<br>10.9Ω/M'<br>35.8Ω/km<br>(2)18 AWG TC<br>(19x30)<br>6.9Ω/M'<br>22.6Ω/km | 100%<br>Individual<br>Foil<br>+ Overall<br>65%<br>TC Braid<br>3.2Ω/M'<br>10.5Ω/km | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .378<br>9.60 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .29<br>.50<br>.70 | .95<br>1.64<br>2.30 |
|-------------|----------------------------|-------------------------------------|-------------|----------------|--------------|--------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----|---|--------------|-----------------------|-------------------|---------------------|



UL AWM 20201

\*20 AWG stranded (19x32) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.

## Flat • 16 AWG Stranded (19x29) Tinned Copper • Unshielded

### PVC Insulation (Power) • FPE Insulation (Data) • Lt. Gray Sunlight-resistant PVC Jacket

|                      |                            |                                            |                    |                        |                       |                      |                                                |            |                                                          |                   |                    |     |   |              |                       |                   |                    |
|----------------------|----------------------------|--------------------------------------------|--------------------|------------------------|-----------------------|----------------------|------------------------------------------------|------------|----------------------------------------------------------|-------------------|--------------------|-----|---|--------------|-----------------------|-------------------|--------------------|
| Class 2<br>300V 75°C | <b>3082K</b><br><b>new</b> | NEC:<br>CMG CL2<br>PLTC<br>CEC:<br>CMG FT4 | 246<br>656<br>1378 | 75.0<br>200.0<br>420.0 | 30.8<br>78.7<br>165.4 | 14.0<br>35.8<br>75.2 | (4)16 AWG TC<br>(19x29)<br>4.9Ω/M'<br>16.1Ω/km | Unshielded | Power Pair:<br>Red/Black<br><br>Data Pair:<br>Blue/White | .760<br>x<br>.210 | 10.92<br>x<br>5.33 | 120 | — | 12.0<br>39.4 | .125<br>.500<br>1.000 | .13<br>.25<br>.40 | .43<br>.82<br>1.31 |
|----------------------|----------------------------|--------------------------------------------|--------------------|------------------------|-----------------------|----------------------|------------------------------------------------|------------|----------------------------------------------------------|-------------------|--------------------|-----|---|--------------|-----------------------|-------------------|--------------------|



### PVC Insulation • Black Sunlight-resistant PVC Jacket

|                               |                             |                                                  |                    |                        |                       |                      |                                                |            |                          |                   |                    |   |   |   |   |   |   |
|-------------------------------|-----------------------------|--------------------------------------------------|--------------------|------------------------|-----------------------|----------------------|------------------------------------------------|------------|--------------------------|-------------------|--------------------|---|---|---|---|---|---|
| Class 1<br>Power<br>600V 75°C | <b>3082KP</b><br><b>new</b> | NEC:<br>CMG, ITC,<br>PLTC, TC<br>CEC:<br>CMG FT4 | 246<br>656<br>1378 | 75.0<br>200.0<br>420.0 | 32.0<br>81.3<br>170.9 | 14.5<br>37.0<br>77.7 | (4)16 AWG TC<br>(19x29)<br>4.9Ω/M'<br>16.1Ω/km | Unshielded | Red/Black,<br>Blue/White | .760<br>x<br>.210 | 10.92<br>x<br>5.33 | — | — | — | — | — | — |
|-------------------------------|-----------------------------|--------------------------------------------------|--------------------|------------------------|-----------------------|----------------------|------------------------------------------------|------------|--------------------------|-------------------|--------------------|---|---|---|---|---|---|



DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.



By:



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**Industrial Data Solutions® — Industrial Data**

DeviceBus® for Honeywell Smart Distributed System

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Shielding<br>Materials<br>Nom. DCR | Color<br>Code | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|------------------------------------|---------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  |                                    |               | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

**22 AWG** Stranded Tinned Copper • Each Pair Individually Beldfoil® Shielded

| PVC Insulation (Power) • Cellular PE Insulation (Data) • Dark Gray PVC Jacket |              |      |      |       |      |      |               |           |             |      |      |     |       |      |      |       |     |      |
|-------------------------------------------------------------------------------|--------------|------|------|-------|------|------|---------------|-----------|-------------|------|------|-----|-------|------|------|-------|-----|------|
| UL AWM                                                                        | <b>3087A</b> | NEC: | 500  | 152.4 | 22.0 | 10.0 | (4)22 AWG     | 100%      | Power Pair: | .290 | 7.37 | 120 | —     | 12.0 | 39.4 | .125  | .23 | .76  |
| Style 2464                                                                    |              | CL2  | 1000 | 304.8 | 41.0 | 18.6 | (19x34)       | Beldfoil  | Blue/Brown  |      |      |     |       |      |      | .500  | .42 | 1.38 |
| 30V 80°C                                                                      |              | CEC: | 2000 | 609.6 | 84.0 | 38.2 | .030"         | Each Pair |             |      |      |     |       |      |      | 1.000 | .60 | 1.97 |
| CSA AWM I/II A                                                                |              | FT1  |      |       |      |      | Tinned Copper |           | Data Pair:  |      |      |     | Data: |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | 17.5Ω/M'      |           | Black/White |      |      |     | 76%   |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | 57.4Ω/km      |           |             |      |      |     |       |      |      |       |     |      |



Micro Cable (Drop)

**16 and 20 AWG** Stranded Tinned Copper • Each Pair Individually Beldfoil Shielded

| PVC Insulation (Power) • Cellular PE Insulation (Data) • Dark Gray PVC Jacket |              |      |      |       |      |      |              |           |             |      |       |     |       |      |      |       |     |      |
|-------------------------------------------------------------------------------|--------------|------|------|-------|------|------|--------------|-----------|-------------|------|-------|-----|-------|------|------|-------|-----|------|
| UL AWM                                                                        | <b>3086A</b> | NEC: | 500  | 152.4 | 40.0 | 18.2 | (2)16 AWG TC | 100%      | Power Pair: | .398 | 10.11 | 120 | —     | 12.0 | 39.4 | .125  | .18 | .59  |
| Style 2464                                                                    |              | CL2  | 1000 | 304.8 | 80.0 | 36.4 | (19x29)      | Beldfoil  | Blue/Brown  |      |       |     |       |      |      | .500  | .35 | 1.15 |
| 30V 80°C                                                                      |              | CEC: |      |       |      |      | .067"        | Each Pair |             |      |       |     |       |      |      | 1.000 | .47 | 1.54 |
| CSA AWM I/II A                                                                |              | FT1  |      |       |      |      | 3.6Ω/M'      |           | Data Pair:  |      |       |     | Data: |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | 11.8Ω/km     |           | Black/White |      |       |     | 76%   |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | (2)20 AWG TC |           |             |      |       |     |       |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | (19x32)      |           |             |      |       |     |       |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | .041"        |           |             |      |       |     |       |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | 10.0Ω/M'     |           |             |      |       |     |       |      |      |       |     |      |
|                                                                               |              |      |      |       |      |      | 32.8Ω/km     |           |             |      |       |     |       |      |      |       |     |      |



Mini Cable (Trunk)

DCR = DC Resistance • TC = Tinned Copper



**Industrial Data Solutions® — Industrial Data**

DeviceBus® for Square D/Seriplex®

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Shielding<br>Materials<br>Nom. DCR | Color<br>Code | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|------------------------------------|---------------|------------|----|------------------------------|-----------------------------|---------------------|------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  |                                    |               | Inch       | mm |                              |                             | pF/Ft.              | pF/m |

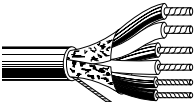
**18 and 22 AWG** Stranded Tinned Copper • Overall 100% Beldfoil® Shield • 22 AWG Drain Wire

| Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket |                                                                                  |        |      |       |       |      |           |           |      |                           |      |      |     |   |     |              |  |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------|------|-------|-------|------|-----------|-----------|------|---------------------------|------|------|-----|---|-----|--------------|--|
| 150V 75°C                                                                      |  | 3124A  | NEC: | 500   | 152.4 | 25.0 | 11.4      | (2)18 AWG | 100% | Power Pair:<br>Red/Black  | .308 | 7.82 | 150 | — | 9.0 | 30.0         |  |
|                                                                                |                                                                                  | CL2 CM | 1000 | 304.8 | 47.0  | 21.4 | (16x30)   | Overall   |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  | CEC:   |      |       |       |      | .040" TC  | Beldfoil  |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  | CM     |      |       |       |      | 6.8Ω/M'   | Shield    |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  |        |      |       |       |      | 21.3Ω/km  | 10.7Ω/M'  |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  |        |      |       |       |      | (2)22 AWG | 35.1Ω/km  |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  |        |      |       |       |      | (7x30)    |           |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  |        |      |       |       |      | .030" TC  |           |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  |        |      |       |       |      | 18.1Ω/M'  |           |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  |        |      |       |       |      | 59.4Ω/km  |           |      |                           |      |      |     |   |     |              |  |
|                                                                                |                                                                                  |        |      |       |       |      |           |           |      | Data Pair:<br>White/Green |      |      |     |   |     | Data:<br>78% |  |

**16 and 22 AWG** Stranded Tinned Copper • Overall 100% Beldfoil Shield • 22 AWG Drain Wire

| Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket   |       |        |      |       |      |          |           |          |             |      |      |     |   |       |      |  |
|----------------------------------------------------------------------------------|-------|--------|------|-------|------|----------|-----------|----------|-------------|------|------|-----|---|-------|------|--|
| 150V 75°C                                                                        | 3125A | NEC:   | 500  | 152.4 | 31.5 | 14.3     | (2)16 AWG | 100%     | Power Pair: | .368 | 9.35 | 150 | — | 9.0   | 30.0 |  |
|  |       | CL2 CM | 1000 | 304.8 | 63.0 | 28.6     | (26x30)   | Overall  | Red/Black   |      |      |     |   |       |      |  |
|                                                                                  |       | CEC:   |      |       |      |          | .060" TC  | Beldfoil |             |      |      |     |   |       |      |  |
|                                                                                  |       | CM     |      |       |      |          | 4.5Ω/M'   | Shield   |             |      |      |     |   |       |      |  |
|                                                                                  |       |        |      |       |      |          | 14.8Ω/km  | 10.0Ω/M' |             |      |      |     |   |       |      |  |
|                                                                                  |       |        |      |       |      |          | (2)22 AWG | 32.8Ω/km |             |      |      |     |   |       |      |  |
|                                                                                  |       |        |      |       |      |          | (7x30)    |          | Data Pair:  |      |      |     |   |       |      |  |
|                                                                                  |       |        |      |       |      |          | .030" TC  |          | White/Green |      |      |     |   | Data: |      |  |
|                                                                                  |       |        |      |       |      |          | 18.1Ω/M'  |          |             |      |      |     |   | 78%   |      |  |
|                                                                                  |       |        |      |       |      | 59.4Ω/km |           |          |             |      |      |     |   |       |      |  |

**16, 22 and 12 AWG** Stranded Tinned Copper • Overall 100% Beldfoil Shield • 22 AWG Drain Wire

| Foam HDPE Insulation (Control) • Foam HDPE Insulation (Data) • PVC Insulation (Power) • Orange PVC Jacket |                                                                                    |        |      |       |       |           |           |           |      |                                          |                           |       |     |   |     |      |              |  |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|------|-------|-------|-----------|-----------|-----------|------|------------------------------------------|---------------------------|-------|-----|---|-----|------|--------------|--|
| 150V 75°C                                                                                                 |  | 3126A  | NEC: | 500   | 152.4 | 57.5      | 26.1      | (2)16 AWG | 100% | Control Pair:<br>Red/Black               | .486                      | 12.34 | 150 | — | 9.0 | 30.0 |              |  |
|                                                                                                           |                                                                                    | CL2 CM | 1000 | 304.8 | 114.0 | 51.8      | (26x30)   | Overall   |      |                                          | x                         | x     |     |   |     |      |              |  |
|                                                                                                           |                                                                                    | CEC:   |      |       |       |           | .060" TC  | Beldfoil  |      |                                          | .363                      | 9.22  |     |   |     |      |              |  |
|                                                                                                           |                                                                                    | CM     |      |       |       |           | 4.5Ω/M'   | Shield    |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       |           | 14.8Ω/km  | 9.5Ω/M'   |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       |           | (2)22 AWG | 31.2Ω/km  |      |                                          | Data Pair:<br>White/Green |       |     |   |     |      | Data:<br>78% |  |
|                                                                                                           |                                                                                    |        |      |       |       |           | (7x30)    |           |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       |           | .030" TC  |           |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       |           | 18.1Ω/M'  |           |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       |           | 59.4Ω/km  |           |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       | (2)12 AWG |           |           |      | Power Pair:<br>Black/White,<br>Red/White |                           |       |     |   |     | —    |              |  |
|                                                                                                           |                                                                                    |        |      |       |       | (65x30)   |           |           |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       | .090" TC  |           |           |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       | 1.8Ω/M'   |           |           |      |                                          |                           |       |     |   |     |      |              |  |
|                                                                                                           |                                                                                    |        |      |       |       | 5.9Ω/km   |           |           |      |                                          |                           |       |     |   |     |      |              |  |

DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Square D/Seriplex is a Square D/Schneider AEG trademark.



By:

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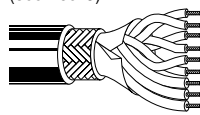
1-800-527-0010

**Industrial Data Solutions® — Industrial Data**

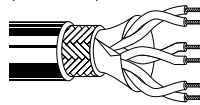
DeviceBus® for Phoenix Contact InterBus®-S

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Shielding<br>Materials<br>Nom. DCR | Color<br>Code | Nominal OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nominal Capacitance |      |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|------------------------------------|---------------|------------|----|------------------------------|-----------------------------|---------------------|------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  |                                    |               | Inch       | mm |                              |                             | pF/Ft.              | pF/m |

**18 and 24 AWG** Stranded Tinned Copper • Overall 100% Beldfoil® Shield + 90% Tinned Copper Braid

| <b>PVC Insulation (Power) • PE Insulation (Data) • Green Polyurethane Jacket</b>  |                                   |              |      |       |      |      |                     |                  |                                                                                                              |      |      |     |   |      |      |
|-----------------------------------------------------------------------------------|-----------------------------------|--------------|------|-------|------|------|---------------------|------------------|--------------------------------------------------------------------------------------------------------------|------|------|-----|---|------|------|
|  | UL AWM Style 20233<br>(300V 80°C) | <b>3119A</b> | 500  | 152.4 | 35.5 | 16.1 | (3)18 AWG<br>(7x24) | 100%             | Power:<br>Red, Blue,<br>Green w/<br>Yellow Stripe<br><br>Data:<br>White/Brown,<br>Pink/Gray,<br>Yellow/Green | .333 | 8.46 | 100 | — | 15.4 | 50.5 |
|                                                                                   |                                   |              | 1000 | 304.8 | 71.0 | 32.3 | .060" TC            | Overall          |                                                                                                              |      |      |     |   |      |      |
|                                                                                   |                                   |              |      |       |      |      | 3.7 $\Omega$ /M'    | Beldfoil         |                                                                                                              |      |      |     |   |      |      |
|                                                                                   |                                   |              |      |       |      |      | 12.1 $\Omega$ /km   | + 90%            |                                                                                                              |      |      |     |   |      |      |
|                                                                                   |                                   |              |      |       |      |      | (3pr)24 AWG         | TC Braid         |                                                                                                              |      |      |     |   |      |      |
|                                                                                   |                                   |              |      |       |      |      | (7x32)              | 2.7 $\Omega$ /M' |                                                                                                              |      |      |     |   |      |      |
|                                                                                   |                                   |              |      |       |      |      | .024" TC            | 8.9 $\Omega$ /km |                                                                                                              |      |      |     |   |      |      |
|                                                                                   |                                   |              |      |       |      |      | 24.0 $\Omega$ /M'   |                  |                                                                                                              |      |      |     |   |      |      |
|                                                                                   |                                   |              |      |       |      |      | 78.7 $\Omega$ /km   |                  |                                                                                                              |      |      |     |   |      |      |

**24 AWG** Stranded Tinned Copper • Overall 100% Beldfoil Shield + 90% Tinned Copper Braid

| <b>PE Insulation • Green Polyurethane Jacket</b>                                  |                                   |              |      |       |      |      |                   |                  |                                            |      |      |     |     |      |      |
|-----------------------------------------------------------------------------------|-----------------------------------|--------------|------|-------|------|------|-------------------|------------------|--------------------------------------------|------|------|-----|-----|------|------|
|  | UL AWM Style 20233<br>(300V 80°C) | <b>3120A</b> | 500  | 152.4 | 28.0 | 12.7 | (3pr)24 AWG       | 100%             | White/Brown,<br>Pink/Gray,<br>Yellow/Green | .313 | 7.95 | 100 | 66% | 15.4 | 50.5 |
|                                                                                   |                                   |              | 1000 | 304.8 | 56.0 | 25.5 | (7x32)            | Overall          |                                            |      |      |     |     |      |      |
|                                                                                   |                                   |              |      |       |      |      | TC                | Beldfoil         |                                            |      |      |     |     |      |      |
|                                                                                   |                                   |              |      |       |      |      | 24.0 $\Omega$ /M' | + 90%            |                                            |      |      |     |     |      |      |
|                                                                                   |                                   |              |      |       |      |      | 78.7 $\Omega$ /km | TC Braid         |                                            |      |      |     |     |      |      |
|                                                                                   |                                   |              |      |       |      |      |                   | 2.7 $\Omega$ /M' |                                            |      |      |     |     |      |      |
|                                                                                   |                                   |              |      |       |      |      |                   | 8.9 $\Omega$ /km |                                            |      |      |     |     |      |      |

DCR = DC Resistance • TC = Tinned Copper

InterBus-S is a Phoenix Contact trademark.

**Industrial Data Solutions® — Industrial Data****EIA Industrial RS-485 PLTC/CM**

| Description                                                                                                                                | Part No.     | UL NEC/<br>C(UL) CEC<br>Type      | No.<br>of Pairs | Color<br>Code         | Standard<br>Lengths  |                           | Standard<br>Unit Weight |                        | Nom. DCR                               |                                      | Nominal<br>OD |     | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of Prop.                           | Nom. Capacitance |               |                  |                |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------|-----------------|-----------------------|----------------------|---------------------------|-------------------------|------------------------|----------------------------------------|--------------------------------------|---------------|-----|------------------------------|----------------------------------------------------|------------------|---------------|------------------|----------------|
|                                                                                                                                            |              |                                   |                 |                       | Ft.                  | m                         | Lbs.                    | kg                     | Cond.                                  | Shield                               | Inch          | mm  |                              |                                                    | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |
| <b>22 AWG Stranded (7x30) Tinned Copper • Twisted Pairs • Overall 100% Beldfoil® Shield + 90% TC Braid • 22 AWG Stranded TC Drain Wire</b> |              |                                   |                 |                       |                      |                           |                         |                        |                                        |                                      |               |     |                              |                                                    |                  |               |                  |                |
| <b>Datalene® Insulation • Black UV Resistant PVC Jacket (CPE jacket optional)</b>                                                          |              |                                   |                 |                       |                      |                           |                         |                        |                                        |                                      |               |     |                              |                                                    |                  |               |                  |                |
|                                                            | <b>3105A</b> | NEC:<br>CM PLTC<br>CEC:<br>CM FT1 | 1               | See<br>Chart<br>Below | 500<br>1000<br>5000  | 152.4<br>304.8<br>1523.9  | 25.0<br>50.0<br>255.0   | 11.4<br>22.7<br>115.9  | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 2.9 $\Omega$ /M'<br>9.5 $\Omega$ /km | .286<br>7.26  | 120 | 78%                          | 11.0                                               | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                            |              |                                   |                 |                       |                      |                           |                         |                        |                                        |                                      |               |     |                              | For CPE jacketed version<br>order Part No. YR44345 |                  |               |                  |                |
|                                                                                                                                            | <b>3106A</b> | NEC:<br>CM PLTC<br>CEC:<br>CM FT1 | 1.5†            | See<br>Chart<br>Below | 500<br>1000<br>5000  | 152.4<br>304.8<br>1523.9  | 27.0<br>51.0<br>260.0   | 12.3<br>23.2<br>118.2  | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 2.8 $\Omega$ /M'<br>9.2 $\Omega$ /km | .302<br>7.67  | 120 | 78%                          | 11.0                                               | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                            |              |                                   |                 |                       |                      |                           |                         |                        |                                        |                                      |               |     |                              | For CPE jacketed version<br>order Part No. YR46721 |                  |               |                  |                |
|                                                                                                                                            | <b>3107A</b> | NEC:<br>CM PLTC<br>CEC:<br>CM FT1 | 2               | See<br>Chart<br>Below | 1000<br>4000<br>5000 | 304.8<br>1219.2<br>1523.9 | 73.0<br>300.0<br>385.0  | 33.2<br>136.4<br>175.0 | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 1.4 $\Omega$ /M'<br>4.6 $\Omega$ /km | .356<br>9.04  | 120 | 78%                          | 11.0                                               | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                            |              |                                   |                 |                       |                      |                           |                         |                        |                                        |                                      |               |     |                              | For CPE jacketed version<br>order Part No. YR46792 |                  |               |                  |                |
|                                                                                                                                            | <b>3108A</b> | NEC:<br>CM PLTC<br>CEC:<br>CM FT1 | 3               | See<br>Chart<br>Below | 1000<br>2000         | 304.8<br>609.6            | 93.0<br>184.0           | 42.3<br>83.6           | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 1.4 $\Omega$ /M'<br>4.6 $\Omega$ /km | .420<br>10.67 | 120 | 78%                          | 11.0                                               | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                            |              |                                   |                 |                       |                      |                           |                         |                        |                                        |                                      |               |     |                              | For CPE jacketed version<br>order Part No. YR45287 |                  |               |                  |                |
|                                                                                                                                            | <b>3109A</b> | NEC:<br>CM PLTC<br>CEC:<br>CM FT1 | 4               | See<br>Chart<br>Below | 1000<br>2000         | 304.8<br>609.6            | 107.0<br>218.0          | 48.6<br>99.1           | 14.7 $\Omega$ /M'<br>48.2 $\Omega$ /km | 1.1 $\Omega$ /M'<br>3.6 $\Omega$ /km | .420<br>10.67 | 120 | 78%                          | 11.0                                               | 36.1             | 20.0          | 65.6             |                |
|                                                                                                                                            |              |                                   |                 |                       |                      |                           |                         |                        |                                        |                                      |               |     |                              | For CPE jacketed version<br>order Part No. YR44768 |                  |               |                  |                |

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† All conductors are under the braid shield; one pair is under the Beldfoil shield.

**Color Code Chart**

| Pair No. | Color Combination                          |
|----------|--------------------------------------------|
| 1        | White/Blue Stripe<br>Blue/White Stripe     |
| 2        | White/Orange Stripe<br>Orange/White Stripe |
| 3        | White/Green Stripe<br>Green/White Stripe   |
| 4        | White/Brown Stripe<br>Brown/White Stripe   |



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1-800-527-0010

**Industrial Data Solutions® — Interconnect Cable****Shielded Twisted Pair Cables**

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | No.<br>of<br>Pairs | Color<br>Code | Standard<br>Lengths |   | Standard<br>Unit Weight |    | Nom. DCR |        | Nominal<br>OD |    | Nom.<br>Imp.<br>( $\Omega$ ) | Nom.<br>Vel.<br>of<br>Prop. | Nom. Capacitance |               |                  |                |
|-------------|----------|------------------------------|--------------------|---------------|---------------------|---|-------------------------|----|----------|--------|---------------|----|------------------------------|-----------------------------|------------------|---------------|------------------|----------------|
|             |          |                              |                    |               | Ft.                 | m | Lbs.                    | kg | Cond.    | Shield | Inch          | mm |                              |                             | *<br>pF/<br>Ft.  | *<br>pF/<br>m | **<br>pF/<br>Ft. | **<br>pF/<br>m |

**24 AWG** Stranded (7x32) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 24 AWG Stranded TC Drain Wire**Datalene® Insulation • Chrome PVC Jacket**

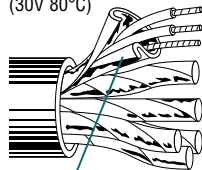
|                                  |             |                          |   |                                          |                             |                                  |                              |                             |                                        |                                        |              |     |     |      |      |      |      |
|----------------------------------|-------------|--------------------------|---|------------------------------------------|-----------------------------|----------------------------------|------------------------------|-----------------------------|----------------------------------------|----------------------------------------|--------------|-----|-----|------|------|------|------|
| UL AWM Style 2493<br>(300V 60°C) | <b>9729</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>500<br>1000<br>10000 | 30.5<br>152.4<br>304.8<br>3048.0 | 4.3<br>20.5<br>39.0<br>390.0 | 2.0<br>9.3<br>17.7<br>177.8 | 24.0 $\Omega$ /M'<br>78.7 $\Omega$ /km | 18.0 $\Omega$ /M'<br>59.1 $\Omega$ /km | .317<br>8.05 | 100 | 78% | 12.5 | 41.0 | 23.2 | 76.1 |
|----------------------------------|-------------|--------------------------|---|------------------------------------------|-----------------------------|----------------------------------|------------------------------|-----------------------------|----------------------------------------|----------------------------------------|--------------|-----|-----|------|------|------|------|



Z-Fold®

For Plenum version of 9729,  
see 89729 or 82729.**22 AWG** Stranded (7x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil • 22 AWG Stranded TC Drain Wire**Polypropylene Insulation • Chrome PVC Jacket**

|                                 |             |                          |   |                                          |                                                                               |                                                                                            |                                                                                |                                                                           |                                        |                                        |              |    |     |    |    |    |     |
|---------------------------------|-------------|--------------------------|---|------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------|----|-----|----|----|----|-----|
| UL AWM Style 2919<br>(30V 80°C) | <b>8777</b> | NEC:<br>CM<br>CEC:<br>CM | 3 | See<br>Chart 3<br>(Tech Info<br>Section) | 100<br>250<br>U-500<br>500<br>U-1000<br>1000<br>1640<br>3280<br>5000<br>10000 | 30.5<br>76.2<br>U-152.4<br>152.4<br>U-304.8<br>304.8<br>499.9<br>999.7<br>1524.0<br>3048.0 | 5.3<br>11.3<br>21.0<br>21.0<br>41.0<br>42.0<br>67.2<br>137.8<br>210.0<br>450.0 | 2.4<br>5.1<br>9.5<br>9.5<br>18.7<br>19.1<br>30.6<br>62.6<br>95.5<br>204.5 | 15.0 $\Omega$ /M'<br>49.2 $\Omega$ /km | 10.6 $\Omega$ /M'<br>34.8 $\Omega$ /km | .273<br>6.93 | 50 | 66% | 30 | 98 | 55 | 180 |
|---------------------------------|-------------|--------------------------|---|------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------|----|-----|----|----|----|-----|



Z-Fold®

For Plenum versions of 8777,  
see 88777, 87777 or 82777.**22 AWG** Stranded (7x30) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil • 24 AWG Stranded TC Drain Wire**Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

|               |             |                          |   |                           |                                                                                          |                                                                                                        |                                                                                      |                                                                                 |                                        |                                        |              |    |     |    |     |    |     |
|---------------|-------------|--------------------------|---|---------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------|----|-----|----|-----|----|-----|
| 300V RMS 60°C | <b>8723</b> | NEC:<br>CM<br>CEC:<br>CM | 2 | Red/Black,<br>Green/White | 100<br>U-500<br>500<br>U-1000<br>1000<br>1640<br>U-2000<br>2000<br>3280<br>5000<br>10000 | 30.5<br>U-152.4<br>152.4<br>U-304.8<br>304.8<br>499.9<br>U-609.6<br>609.6<br>999.7<br>1524.0<br>3048.0 | 2.3<br>10.5<br>10.0<br>20.0<br>20.0<br>32.8<br>40.0<br>40.0<br>65.6<br>95.0<br>200.0 | 1.0<br>4.8<br>4.5<br>9.1<br>9.1<br>14.9<br>18.2<br>18.2<br>29.8<br>43.2<br>90.9 | 15.0 $\Omega$ /M'<br>49.2 $\Omega$ /km | 16.6 $\Omega$ /M'<br>54.5 $\Omega$ /km | .168<br>4.27 | 45 | 66% | 35 | 115 | 62 | 203 |
|---------------|-------------|--------------------------|---|---------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------|----|-----|----|-----|----|-----|

For Plenum versions of 8723,  
see 88723, 87723 or 82723.**Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

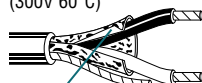
|                       |              |                                |   |                           |                    |                        |                     |                   |                                        |                                        |              |    |     |    |     |    |     |
|-----------------------|--------------|--------------------------------|---|---------------------------|--------------------|------------------------|---------------------|-------------------|----------------------------------------|----------------------------------------|--------------|----|-----|----|-----|----|-----|
| 300V RMS, Non-conduit | <b>88723</b> | NEC:<br>CMP<br>CEC:<br>CMP FT6 | 2 | Red/Black,<br>Green/White | 100<br>500<br>1000 | 30.5<br>152.4<br>304.8 | 3.4<br>11.0<br>21.0 | 1.5<br>5.0<br>9.5 | 16.0 $\Omega$ /M'<br>52.5 $\Omega$ /km | 16.6 $\Omega$ /M'<br>54.5 $\Omega$ /km | .148<br>3.76 | 40 | 69% | 35 | 115 | 67 | 220 |
|-----------------------|--------------|--------------------------------|---|---------------------------|--------------------|------------------------|---------------------|-------------------|----------------------------------------|----------------------------------------|--------------|----|-----|----|-----|----|-----|



Z-Fold®

**18 AWG** Stranded Conductors (16x30) • Tinned Copper • Twisted Pair • Overall 100% Beldfoil Shield • 20 AWG Stranded TC Drain Wire**Polyethylene Insulation • Chrome PVC Jacket**

|                                  |             |                          |   |                 |                                                                |                                                                           |                                                               |                                                            |   |   |              |   |   |    |    |    |     |
|----------------------------------|-------------|--------------------------|---|-----------------|----------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|---|---|--------------|---|---|----|----|----|-----|
| UL AWM Style 2092<br>(300V 60°C) | <b>8760</b> | NEC:<br>CM<br>CEC:<br>CM | 1 | Black,<br>Clear | 250<br>U-500<br>500<br>U-1000<br>1000<br>2000<br>5000<br>10000 | 76.2<br>U-152.4<br>152.4<br>U-304.8<br>304.8<br>609.6<br>1524.0<br>3048.0 | 6.8<br>13.0<br>13.0<br>26.0<br>25.0<br>50.0<br>135.0<br>260.0 | 3.1<br>5.9<br>5.9<br>11.8<br>11.4<br>22.7<br>61.4<br>118.2 | — | — | .222<br>5.64 | — | — | 24 | 79 | 44 | 144 |
|----------------------------------|-------------|--------------------------|---|-----------------|----------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|---|---|--------------|---|---|----|----|----|-----|



Shorting Fold

For Plenum versions of 8760,  
see 88760, 87760 or 82760.

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

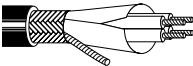
\*\* Capacitance between one conductor and other conductors connected to shield.



## VFD (Variable Frequency Drive) Cable

### 1000V UL Flexible Motor Supply Cable

VFD cables carry the power from AC drive systems to AC motors and are designed to withstand harsh operating environments characterized by high voltage spikes, high noise levels and adverse environmental conditions.

| Description                                                                                                                                   | Part No. | AWG | Cond. Stranding | Standard Lengths |        | Standard Unit Wt. |        | Nominal OD |       | Maximum Pull Tension |      | Minimum Bend Radius |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|-----------------|------------------|--------|-------------------|--------|------------|-------|----------------------|------|---------------------|--------|
|                                                                                                                                               |          |     |                 | Ft.              | m      | Lbs.              | kg     | Inch       | mm    | Lbs.                 | N    | Inch                | mm     |
| 4-conductor (3) Stranded TC Signals + (1) Full-sized Ground • Overall Beldfoil® + 85% TC Braid Shield • Full Sized TC Drain Wire*             |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
| XLPE Insulation • Black Sunlight-resistant PVC Jacket (ICEA Method 4 Color Code: Black and Numbered, Green Ground)                            |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
| 1000V UL Flexible Motor Supply Cable<br>600V UL 1277 Type TC<br>1000V CSA AWM I/II A/B FT4<br>Open Wiring per NEC Article 340<br>90°C Wet/Dry | 29500    | 16  | 26x30           | 250              | 76.2   | 40.3              | 18.3   | .48        | 12.19 | 83                   | 368  | 3.9                 | 99.06  |
|                                                                                                                                               |          |     |                 | 500              | 152.4  | 93.5              | 42.5   |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 169.0             | 76.8   |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 6000             | 1829.3 | 1068.0            | 485.5  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                               | 29501    | 14  | 41x30           | 250              | 76.2   | 55.0              | 25.0   | .55        | 13.97 | 174                  | 773  | 4.5                 | 114.30 |
|                                                                                                                                               |          |     |                 | 500              | 152.4  | 124.0             | 56.4   |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 243.0             | 110.5  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 5000             | 1524.0 | 1105.0            | 502.3  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               | 29502    | 12  | 65x30           | 250              | 76.2   | 69.8              | 31.7   | .60        | 15.24 | 243                  | 1081 | 4.8                 | 121.92 |
|                                                                                                                                               |          |     |                 | 500              | 152.4  | 151.5             | 68.9   |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 298.0             | 135.5  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 5000             | 1524.0 | 1570.0            | 713.6  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               | 29503    | 10  | 105x30          | 250              | 76.2   | 91.3              | 41.5   | .66        | 16.76 | 329                  | 1463 | 5.4                 | 137.16 |
|                                                                                                                                               |          |     |                 | 500              | 152.4  | 194.5             | 88.4   |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 375.0             | 170.5  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 5000             | 1524.0 | 2025.0            | 920.5  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               | 29504    | 8   | 7x19x29         | 250              | 76.2   | 158.5             | 72.0   | .89        | 22.61 | 523                  | 2326 | 7.3                 | 185.42 |
|                                                                                                                                               |          |     |                 | 500              | 152.4  | 332.0             | 150.9  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 660.0             | 300.0  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 5000             | 1524.0 | 3135.0            | 1425.0 |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               | 29505    | 6   | 7x19x27         | 250              | 76.2   | 221.3             | 100.6  | .99        | 25.15 | 840                  | 3736 | 8.0                 | 203.20 |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 906.0             | 411.8  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 3500             | 1066.8 | 3206.0            | 1457.3 |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               | 29506    | 4   | 7x19x25         | 250              | 76.2   | 319.5             | 145.2  | 1.15       | 29.21 | 1327                 | 5903 | 9.2                 | 233.68 |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 1250.0            | 568.2  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 3000             | 914.4  | 3843.0            | 1746.8 |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
|                                                                                                                                               | 29507    | 2   | 7x19x23         | 250              | 76.2   | 437.8             | 199.0  | 1.29       | 32.77 | 2110                 | 9386 | 10.5                | 266.70 |
|                                                                                                                                               |          |     |                 | 500              | 152.4  | 875.5             | 398.0  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 1000             | 304.8  | 1711.0            | 777.7  |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 | 2000             | 609.6  | 3682.0            | 1673.6 |            |       |                      |      |                     |        |
|                                                                                                                                               |          |     |                 |                  |        |                   |        |            |       |                      |      |                     |        |
| XHWW-2, RHW-2 rated singles.<br>Suitable for Direct Burial applications.                                                                      |          |     |                 | 2000             | 609.6  | 3682.0            | 1673.6 |            |       |                      |      |                     |        |

XHHW-2, RHW-2 rated singles.  
Suitable for Direct Burial applications.

TC = Tinned Copper if conductor, or Tray Cable if NEC rating. • XLPE = Cross-linked Polyethylene

\*Drain wire and ground wire are the same AWG size as conductor.



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1-800-527-0010

# Belden Infinity® Flexible Automation Cable

## Overview and Application Guide

Belden Infinity is a complete line of control, data, video, and power cables specifically designed to handle the rigorous speeds and near-constant motion encountered in automated equipment such as robots, pick and place machines, automatic handling systems, multi-axis machine tools, and conveyor systems.

When the application demands highly flexible cables offering exceptional cable life and performance, specify Belden Infinity.

### Belden Infinity Means More Performance And Longer Life

**Reduced Cable Memory** — Belden Infinity's unique design, including no central core conductor, and neutralized cabling, results in cables that are relaxed, with almost no memory.

**Greater Flex Life** — Belden Infinity cables offer superior flexibility and are able to handle the vigorous motions and high speeds encountered in automated equipment.

**Greater System Uptime** — Belden Infinity cables combine specialized manufacturing techniques with precision copper stranding and rugged insulation and jacketing compounds to maximize flex life and reliability.

**No Talc Problems** — Unlike the potentially harmful talc used in other cables, Belden's non-toxic, non-irritating slipper compound facilitates flexing and also complies with OSHA regulations. It's safer for employees and operators and is less likely to contaminate solder joints or mechanical compounds.

**CE Conformity** — All Belden Infinity cables are CE marked per the Conformité Européenne low voltage directive, allowing trade of product in Europe.

**Custom Designs** — Other designs available upon request.

### Product Series Descriptions

- **C-TC+** — The C-TC+ series is designed for C-track and extreme flex applications up to 9 million flex cycles\*. This series utilizes super fine stranding and some of the tightest lay lengths allowed by UL, providing outstanding flex life.
- **FCC** — The FCC series is a cost effective alternative for C-track and moderate flexing applications rated up to 1 million flex cycles\*.
- **Flex Data Cables** — Belden Infinity Flex Data cables are designed for industrial applications where precise data transmission is combined with high-flexing. These cables are ideal for effective operation of computer controlled equipment or other automated production processes, even in harsh environments.
- **Flex Vision** — Belden Infinity Vision cables are continuous flex video cables designed for machine vision applications. They are ideal for motion-controlled video and with inspection and measurement equipment.

### Application Guide

| Belden Infinity Series                                                                                             | C-Track Systems | Multi-Axis Machining | Robotics | Automated Assembly Systems | Material Handling Systems | Pick & Place Systems | Automated Storage Retrieval | Gantry Systems | Machine Vision | Motion-Controlled Video | Inspection & Measure Equip. | Festooning | Servo | Power |
|--------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|----------|----------------------------|---------------------------|----------------------|-----------------------------|----------------|----------------|-------------------------|-----------------------------|------------|-------|-------|
| <b>FCC</b><br>Oil & abrasion resistant<br>600V UL & CSA rated<br>Life Expectancy:<br>Over 1 million flex cycles*   | ●               | ●                    |          | ●                          | ●                         | ●                    | ●                           | ●              |                |                         | ●                           | ●          | ●     | ●     |
| <b>C-TC+</b><br>Oil & abrasion resistant<br>600V UL & CSA rated<br>Life Expectancy:<br>Over 9 million flex cycles* | ★               | ★                    | ●        | ★                          | ★                         | ★                    | ★                           | ★              |                |                         | ★                           | ★          | ★     | ★     |
| <b>DATA</b><br>Oil & abrasion resistant<br>300V UL & CSA rated<br>Life Expectancy:<br>Over 1 million flex cycles*  | ●               | ●                    | ●        | ●                          | ●                         | ●                    | ●                           | ●              |                |                         | ●                           | ●          |       |       |
| <b>VISION</b><br>Abrasion resistant<br>30V UL & CSA rated<br>Life Expectancy:<br>Over 1 million flex cycles*       | ●               | ●                    |          | ●                          | ●                         | ●                    | ●                           | ●              | ★              | +                       | +                           | ●          |       |       |

● Satisfactory + Superior ★ Supreme

\*Based on Belden recommended installation guidelines.





# Belden Infinity® Flexible Automation Cable

600V C-TC+ Control Cables for Extreme Flexing

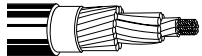
(9 Million Flex Cycles\*)

| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**20 AWG** Stranded (74x38) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket

UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B



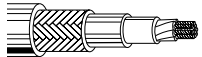
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |
|--------------|----|------|-------|-------|------|------|-----|------|------|------|-------|-----|------|
| <b>7101A</b> | 3  | 250  | 76.2  | 11.0  | 5.0  | .020 | .51 | .045 | 1.14 | .275 | 6.99  | 45  | 200  |
|              |    | 500  | 152.4 | 24.5  | 11.1 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 47.0  | 21.4 |      |     |      |      |      |       |     |      |
| <b>7102A</b> | 4  | 250  | 76.2  | 13.3  | 6.0  | .020 | .51 | .045 | 1.14 | .295 | 7.49  | 59  | 262  |
|              |    | 500  | 152.4 | 27.5  | 12.5 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 53.0  | 24.1 |      |     |      |      |      |       |     |      |
| <b>7105A</b> | 9  | 250  | 76.2  | 29.8  | 13.5 | .020 | .51 | .055 | 1.40 | .435 | 11.05 | 130 | 578  |
|              |    | 500  | 152.4 | 52.0  | 23.6 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 104.0 | 47.3 |      |     |      |      |      |       |     |      |
| <b>7106A</b> | 12 | 250  | 76.2  | 32.3  | 14.7 | .020 | .51 | .055 | 1.40 | .455 | 11.56 | 178 | 791  |
|              |    | 500  | 152.4 | 66.5  | 30.2 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 134.0 | 60.9 |      |     |      |      |      |       |     |      |
| <b>7107A</b> | 18 | 250  | 76.2  | 50.0  | 22.7 | .020 | .51 | .065 | 1.65 | .545 | 13.84 | 260 | 1156 |
|              |    | 500  | 152.4 | 101.0 | 45.9 |      |     |      |      |      |       |     |      |
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |
| <b>7108A</b> | 25 | 250  | 76.2  | 71.5  | 32.5 | .020 | .51 | .080 | 2.03 | .665 | 16.89 | 370 | 1645 |
|              |    | 500  | 152.4 | 143.5 | 65.2 |      |     |      |      |      |       |     |      |
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

**20 AWG** Stranded (74x38) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket

UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B



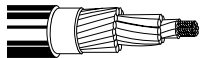
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|---------------|----|-----|-------|-------|------|------|-----|-------------|------|------|-------|-----|-----|
| <b>7106AS</b> | 12 | 250 | 76.2  | 57.5  | 26.1 | .020 | .51 | Inner: .025 | .64  | .535 | 13.59 | 194 | 863 |
|               |    | 500 | 152.4 | 116.0 | 52.7 |      |     | Outer: .055 | 1.40 |      |       |     |     |
|               |    |     |       |       |      |      |     |             |      |      |       |     |     |

Temp Rating: -40° to 90°C (-5° to 90°C flexing)

**18 AWG** Stranded (114x38) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket

UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B



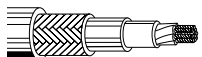
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |
|--------------|----|------|-------|-------|------|------|-----|------|------|------|-------|-----|------|
| <b>7110A</b> | 3  | 250  | 76.2  | 12.8  | 5.8  | .020 | .51 | .035 | .89  | .300 | 7.62  | 69  | 306  |
|              |    | 500  | 152.4 | 26.0  | 11.8 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 50.0  | 22.7 |      |     |      |      |      |       |     |      |
| <b>7113A</b> | 7  | 250  | 76.2  | 29.0  | 13.2 | .020 | .51 | .060 | 1.52 | .438 | 11.13 | 155 | 689  |
|              |    | 500  | 152.4 | 55.5  | 25.2 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 111.0 | 50.5 |      |     |      |      |      |       |     |      |
| <b>7115A</b> | 12 | 250  | 76.2  | 40.3  | 18.3 | .020 | .51 | .060 | 1.52 | .513 | 13.03 | 270 | 1201 |
|              |    | 500  | 152.4 | 84.5  | 38.4 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 169.0 | 76.8 |      |     |      |      |      |       |     |      |
| <b>7116A</b> | 18 | 250  | 76.2  | 63.0  | 28.6 | .020 | .51 | .060 | 1.52 | .598 | 15.19 | 400 | 1779 |
|              |    | 500  | 152.4 | 126.0 | 57.3 |      |     |      |      |      |       |     |      |
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |
| <b>7117A</b> | 25 | 250  | 76.2  | 89.3  | 40.6 | .020 | .51 | .083 | 2.11 | .744 | 18.90 | 570 | 2535 |
|              |    | 500  | 152.4 | 179.0 | 81.4 |      |     |      |      |      |       |     |      |
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |
| <b>7118A</b> | 34 | 250  | 76.2  | 108.8 | 49.4 | .020 | .51 | .083 | 2.11 | .822 | 20.88 | 775 | 3447 |
|              |    | 500  | 152.4 | 216.0 | 98.2 |      |     |      |      |      |       |     |      |
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

**18 AWG** Stranded (114x38) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket

UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B



|               |    |      |       |       |       |      |     |             |      |      |       |     |      |
|---------------|----|------|-------|-------|-------|------|-----|-------------|------|------|-------|-----|------|
| <b>7111AS</b> | 4  | 250  | 76.2  | 4.0   | 1.8   | .020 | .51 | Inner: .025 | .64  | .405 | 10.29 | 84  | 323  |
|               |    | 500  | 152.4 | 60.5  | 27.5  |      |     | Outer: .050 | 1.27 |      |       |     |      |
|               |    |      |       |       |       |      |     |             |      |      |       |     |      |
| <b>7115AS</b> | 12 | 250  | 76.2  | 72.8  | 33.1  | .020 | .51 | Inner: .025 | .64  | .600 | 15.24 | 252 | 1121 |
|               |    | 500  | 152.4 | 144.5 | 65.7  |      |     | Outer: .065 | 1.65 |      |       |     |      |
|               |    | 1000 | 304.8 | 287.0 | 130.5 |      |     |             |      |      |       |     |      |
| <b>7117AS</b> | 25 | 250  | 76.2  | 138.8 | 63.1  | .020 | .51 | Inner: .025 | .64  | .815 | 20.70 | 273 | 1214 |
|               |    | 500  | 152.4 | 277.5 | 126.1 |      |     | Outer: .080 | 2.03 |      |       |     |      |
|               |    |      |       |       |       |      |     |             |      |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

\*Based on proper installation techniques in a C-track cable guide.



By:



INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

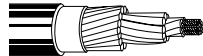
1-800-527-0010

**Belden Infinity® Flexible Automation Cable**

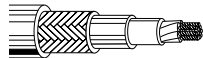
600V C-TC+ Control Cables for Extreme Flexing

(9 Million Flex Cycles\*)

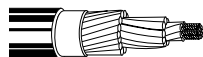
| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**16 AWG** Stranded (190x38) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)**PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

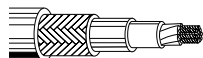
|              |    |      |       |       |       |      |     |      |      |       |       |      |      |
|--------------|----|------|-------|-------|-------|------|-----|------|------|-------|-------|------|------|
| <b>7122A</b> | 3  | 250  | 76.2  | 16.3  | 7.4   | .020 | .51 | .045 | 1.14 | .325  | 8.26  | 114  | 507  |
|              |    | 500  | 152.4 | 43.5  | 19.8  |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 84.0  | 38.2  |      |     |      |      |       |       |      |      |
| <b>7125A</b> | 7  | 250  | 76.2  | 38.5  | 17.5  | .020 | .51 | .060 | 1.52 | .480  | 12.19 | 260  | 1156 |
|              |    | 500  | 152.4 | 73.5  | 33.4  |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 148.0 | 67.3  |      |     |      |      |       |       |      |      |
| <b>7126A</b> | 9  | 250  | 76.2  | 49.3  | 22.4  | .020 | .51 | .060 | 1.52 | .545  | 13.84 | 340  | 1512 |
|              |    | 500  | 152.4 | 97.5  | 44.3  |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 195.0 | 88.6  |      |     |      |      |       |       |      |      |
| <b>7127A</b> | 12 | 250  | 76.2  | 53.3  | 24.2  | .020 | .51 | .060 | 1.52 | .570  | 14.48 | 450  | 2001 |
|              |    | 500  | 152.4 | 122.5 | 55.7  |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 243.0 | 110.5 |      |     |      |      |       |       |      |      |
| <b>7128A</b> | 18 | 250  | 76.2  | 85.3  | 38.8  | .020 | .51 | .060 | 1.52 | .670  | 17.02 | 680  | 3025 |
|              |    | 500  | 152.4 | 172.0 | 78.2  |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 344.0 | 156.4 |      |     |      |      |       |       |      |      |
| <b>7129A</b> | 25 | 250  | 76.2  | 124.5 | 56.5  | .020 | .51 | .080 | 2.03 | .820  | 20.83 | 950  | 4226 |
|              |    | 500  | 152.4 | 247.5 | 112.5 |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 495.0 | 225.0 |      |     |      |      |       |       |      |      |
| <b>7130A</b> | 34 | 250  | 76.2  | 166.3 | 75.6  | .020 | .51 | .080 | 2.03 | .900  | 22.86 | 1290 | 5738 |
|              |    | 500  | 152.4 | 336.0 | 152.7 |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 672.0 | 305.4 |      |     |      |      |       |       |      |      |
| <b>7132A</b> | 50 | 250  | 76.2  | 230.5 | 104.8 | .020 | .51 | .085 | 2.16 | 1.070 | 27.18 | 1900 | 8452 |
|              |    | 500  | 152.4 | 464.5 | 211.1 |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 929.0 | 422.2 |      |     |      |      |       |       |      |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**16 AWG** Stranded (190x38) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Red w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|        |   |        |       |      |      |      |     |          |  |      |       |     |     |
|--------|---|--------|-------|------|------|------|-----|----------|--|------|-------|-----|-----|
| 7121AS | 2 | 250    | 76.2  | 21.5 | 9.8  | .020 | .51 | Inner:   |  | .375 | 9.53  | 76  | 338 |
|        |   | 500    | 152.4 | 43.0 | 19.5 |      |     | .025 .64 |  |      |       |     |     |
|        |   | Outer: |       |      |      |      |     |          |  |      |       |     |     |
|        |   |        |       |      |      |      |     |          |  |      |       |     |     |
| 7123AS | 4 | 250    | 76.2  | 40.8 | 18.5 | .020 | .51 | Inner:   |  | .420 | 10.67 | 154 | 685 |
|        |   | 500    | 152.4 | 78.0 | 35.5 |      |     | .025 .64 |  |      |       |     |     |
|        |   | Outer: |       |      |      |      |     |          |  |      |       |     |     |
|        |   |        |       |      |      |      |     |          |  |      |       |     |     |
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Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**14 AWG** Stranded (266x38) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)**PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|              |    |      |       |       |       |      |     |      |      |       |       |      |      |
|--------------|----|------|-------|-------|-------|------|-----|------|------|-------|-------|------|------|
| <b>7136A</b> | 4  | 250  | 76.2  | 39.0  | 17.7  | .025 | .64 | .050 | 1.27 | .430  | 10.92 | 212  | 943  |
|              |    | 500  | 152.4 | 74.5  | 33.9  |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 149.0 | 67.8  |      |     |      |      |       |       |      |      |
| <b>7142A</b> | 25 | 250  | 76.2  | 246.8 | 112.2 | .025 | .64 | .090 | 2.29 | 1.000 | 25.40 | 1330 | 5916 |
|              |    | 500  | 152.4 | 495.0 | 225.0 |      |     |      |      |       |       |      |      |
|              |    | 1000 | 304.8 | 990.0 | 450.0 |      |     |      |      |       |       |      |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**14 AWG** Stranded (266x38) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Red w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Orange Oil- and Abrasion-resistant PVC Outer Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|        |    |        |       |           |       |      |     |          |  |      |       |     |      |
|--------|----|--------|-------|-----------|-------|------|-----|----------|--|------|-------|-----|------|
| 7136AS | 4  | 250    | 76.2  | 74.0      | 33.6  | .025 | .64 | Inner:   |  | .500 | 12.70 | 248 | 1103 |
|        |    | 500    | 152.4 | 145.0     | 65.9  |      |     | .025 .64 |  |      |       |     |      |
|        |    | Outer: |       | .045 1.14 |       |      |     |          |  |      |       |     |      |
| 7141AS | 18 | 250    | 76.2  | 204.0     | 92.7  | .025 | .64 | Inner:   |  | .890 | 22.61 | 958 | 4261 |
|        |    | 500    | 152.4 | 403.0     | 183.2 |      |     | .025 .64 |  |      |       |     |      |
|        |    | Outer: |       | .070 1.78 |       |      |     |          |  |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

\*Based on proper installation techniques in a C-track cable guide.



# Belden Infinity® Flexible Automation Cable

600V C-TC+ Control Cables for Extreme Flexing

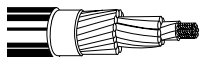
(9 Million Flex Cycles\*)

| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**12 AWG** Stranded (413x38) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket

|                               |              |   |      |       |       |       |      |     |      |      |      |       |     |      |
|-------------------------------|--------------|---|------|-------|-------|-------|------|-----|------|------|------|-------|-----|------|
| UL AWM Style 2587 (600V 90°C) | <b>7145A</b> | 4 | 250  | 76.2  | 72.5  | 33.0  | .030 | .76 | .075 | 1.91 | .545 | 13.84 | 274 | 1218 |
| CSA AWM I/II A/B              |              |   | 500  | 152.4 | 146.0 | 66.4  |      |     |      |      |      |       |     |      |
|                               |              |   | 1000 | 304.8 | 290.0 | 131.8 |      |     |      |      |      |       |     |      |

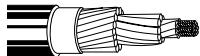


Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

**10 AWG** Stranded (658x38) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket

|                               |              |   |     |       |       |      |      |     |      |      |      |       |     |      |
|-------------------------------|--------------|---|-----|-------|-------|------|------|-----|------|------|------|-------|-----|------|
| UL AWM Style 2587 (600V 90°C) | <b>7147A</b> | 4 | 250 | 76.2  | 78.3  | 35.6 | .030 | .76 | .075 | 1.91 | .605 | 15.37 | 527 | 2331 |
| CSA AWM I/II A/B              |              |   | 500 | 152.4 | 156.5 | 71.1 |      |     |      |      |      |       |     |      |

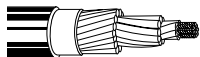


Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

**6 AWG** Stranded (665x34) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket

|                               |              |   |     |       |       |       |      |      |      |      |      |       |      |      |
|-------------------------------|--------------|---|-----|-------|-------|-------|------|------|------|------|------|-------|------|------|
| UL AWM Style 2587 (600V 90°C) | <b>7152A</b> | 3 | 250 | 76.2  | 133.8 | 60.8  | .060 | 1.52 | .075 | 1.91 | .825 | 20.96 | 1100 | 4893 |
| CSA AWM I/II A/B              |              |   | 500 | 152.4 | 266.0 | 120.9 |      |      |      |      |      |       |      |      |

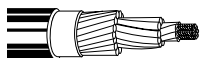


Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

**2 AWG** Stranded (1666x34) Bare Copper • Unshielded (Color Code: Red w/numbers + Green/Yellow ground)

## PVC Insulation • Orange Oil- and Abrasion-resistant PVC Jacket

|                               |              |   |     |      |       |       |      |      |      |      |       |       |      |        |
|-------------------------------|--------------|---|-----|------|-------|-------|------|------|------|------|-------|-------|------|--------|
| UL AWM Style 2587 (600V 90°C) | <b>7158A</b> | 3 | 250 | 76.2 | 334.8 | 152.2 | .070 | 1.78 | .100 | 2.54 | 1.160 | 29.46 | 2499 | 11,117 |
| CSA AWM I/II A/B              |              |   |     |      |       |       |      |      |      |      |       |       |      |        |



Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

\*Based on proper installation techniques in a C-track cable guide.



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Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

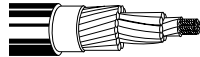
1-800-527-0010

**Belden Infinity® Flexible Automation Cable**

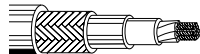
600V FCC Control Cables for Moderate Flexing

(1 Million Flex Cycles\*)

| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**20 AWG** Stranded (10x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|              |    |      |       |       |      |      |     |      |      |      |       |     |      |
|--------------|----|------|-------|-------|------|------|-----|------|------|------|-------|-----|------|
| <b>7400A</b> | 2  | 250  | 76.2  | 11.0  | 5.0  | .022 | .56 | .040 | 1.02 | .240 | 6.10  | 26  | 115  |
|              |    | 500  | 152.4 | 25.0  | 11.4 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 44.0  | 20.0 |      |     |      |      |      |       |     |      |
| <b>7401A</b> | 3  | 250  | 76.2  | 13.0  | 5.9  | .022 | .56 | .040 | 1.02 | .250 | 6.35  | 39  | 173  |
|              |    | 500  | 152.4 | 30.0  | 13.6 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 59.0  | 26.8 |      |     |      |      |      |       |     |      |
| <b>7402A</b> | 4  | 250  | 76.2  | 15.0  | 6.8  | .022 | .56 | .040 | 1.02 | .275 | 6.99  | 52  | 231  |
|              |    | 500  | 152.4 | 33.0  | 15.0 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 64.0  | 29.1 |      |     |      |      |      |       |     |      |
| <b>7403A</b> | 5  | 250  | 76.2  | 17.5  | 8.0  | .022 | .56 | .040 | 1.02 | .300 | 7.62  | 65  | 289  |
|              |    | 500  | 152.4 | 38.0  | 17.3 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 72.0  | 32.7 |      |     |      |      |      |       |     |      |
| <b>7404A</b> | 7  | 250  | 76.2  | 22.0  | 10.0 | .022 | .56 | .040 | 1.02 | .345 | 8.76  | 91  | 404  |
|              |    | 500  | 152.4 | 44.5  | 20.2 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 86.0  | 39.1 |      |     |      |      |      |       |     |      |
| <b>7405A</b> | 9  | 250  | 76.2  | 29.5  | 13.4 | .022 | .56 | .053 | 1.35 | .410 | 10.41 | 117 | 520  |
|              |    | 500  | 152.4 | 71.5  | 32.5 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 144.0 | 65.5 |      |     |      |      |      |       |     |      |
| <b>7406A</b> | 12 | 250  | 76.2  | 30.8  | 14.0 | .022 | .56 | .053 | 1.35 | .420 | 10.67 | 156 | 693  |
|              |    | 500  | 152.4 | 88.5  | 40.2 |      |     |      |      |      |       |     |      |
|              |    | 1000 | 304.8 | 177.0 | 80.5 |      |     |      |      |      |       |     |      |
| <b>7407A</b> | 18 | 250  | 76.2  | 53.5  | 24.3 | .022 | .56 | .053 | 1.35 | .500 | 12.70 | 234 | 1040 |
|              |    | 500  | 152.4 | 104.0 | 47.3 |      |     |      |      |      |       |     |      |
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |
| <b>7408A</b> | 25 | 250  | 76.2  | 65.3  | 29.7 | .022 | .56 | .065 | 1.65 | .615 | 15.62 | 325 | 1445 |
|              |    | 500  | 152.4 | 130.5 | 59.3 |      |     |      |      |      |       |     |      |
|              |    |      |       |       |      |      |     |      |      |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**20 AWG** Stranded (10x30) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|               |   |      |       |       |      |      |     |                            |             |      |       |    |     |
|---------------|---|------|-------|-------|------|------|-----|----------------------------|-------------|------|-------|----|-----|
| <b>7401AS</b> | 3 | 250  | 76.2  | 27.8  | 12.6 | .022 | .56 | Inner: .025<br>Outer: .035 | .64<br>.89  | .320 | 8.13  | 45 | 200 |
|               |   | 500  | 152.4 | 54.0  | 24.5 |      |     |                            |             |      |       |    |     |
|               |   | 1000 | 304.8 | 105.0 | 47.7 |      |     |                            |             |      |       |    |     |
| <b>7402AS</b> | 4 | 250  | 76.2  | 32.8  | 14.9 | .022 | .56 | Inner: .025<br>Outer: .035 | .64<br>.89  | .330 | 8.38  | 52 | 231 |
|               |   | 500  | 152.4 | 64.0  | 29.1 |      |     |                            |             |      |       |    |     |
|               |   |      |       |       |      |      |     |                            |             |      |       |    |     |
| <b>7403AS</b> | 5 | 250  | 76.2  | 34.8  | 15.8 | .022 | .56 | Inner: .025<br>Outer: .035 | .64<br>.89  | .370 | 9.40  | 65 | 289 |
|               |   | 500  | 152.4 | 68.0  | 30.9 |      |     |                            |             |      |       |    |     |
|               |   |      |       |       |      |      |     |                            |             |      |       |    |     |
| <b>7404AS</b> | 7 | 250  | 76.2  | 37.8  | 17.2 | .022 | .56 | Inner: .025<br>Outer: .040 | .64<br>1.02 | .420 | 10.67 | 91 | 404 |
|               |   | 500  | 152.4 | 71.5  | 32.5 |      |     |                            |             |      |       |    |     |
|               |   |      |       |       |      |      |     |                            |             |      |       |    |     |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

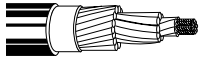
\*Based on proper installation techniques in a C-track cable guide.

**Belden Infinity® Flexible Automation Cable**

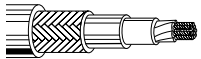
600V FCC Control Cables for Moderate Flexing

(1 Million Flex Cycles\*)

| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | Ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**18 AWG** Stranded (16x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|              |    |      |       |       |       |      |     |      |      |      |       |      |      |
|--------------|----|------|-------|-------|-------|------|-----|------|------|------|-------|------|------|
| <b>7409A</b> | 2  | 250  | 76.2  | 13.3  | 6.0   | .022 | .56 | .040 | 1.02 | .264 | 6.71  | 50   | 222  |
|              |    | 500  | 152.4 | 26.5  | 12.0  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 51.0  | 23.2  |      |     |      |      |      |       |      |      |
| <b>7410A</b> | 3  | 250  | 76.2  | 16.3  | 7.4   | .022 | .56 | .040 | 1.02 | .280 | 7.11  | 74   | 329  |
|              |    | 500  | 152.4 | 25.0  | 11.4  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 48.0  | 21.8  |      |     |      |      |      |       |      |      |
| <b>7411A</b> | 4  | 250  | 76.2  | 18.8  | 8.5   | .022 | .56 | .040 | 1.02 | .305 | 7.75  | 98   | 435  |
|              |    | 500  | 152.4 | 31.0  | 14.1  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 58.0  | 26.4  |      |     |      |      |      |       |      |      |
| <b>7412A</b> | 5  | 250  | 76.2  | 21.8  | 9.9   | .022 | .56 | .040 | 1.02 | .330 | 8.38  | 122  | 542  |
|              |    | 500  | 152.4 | 36.0  | 16.4  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 69.0  | 31.4  |      |     |      |      |      |       |      |      |
| <b>7413A</b> | 7  | 250  | 76.2  | 27.5  | 12.5  | .022 | .56 | .040 | 1.02 | .385 | 9.78  | 171  | 760  |
|              |    | 500  | 152.4 | 46.0  | 20.9  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 120.0 | 54.5  |      |     |      |      |      |       |      |      |
| <b>7414A</b> | 9  | 250  | 76.2  | 36.5  | 16.6  | .022 | .56 | .050 | 1.27 | .452 | 11.48 | 220  | 978  |
|              |    | 500  | 152.4 | 87.0  | 39.5  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 174.0 | 79.1  |      |     |      |      |      |       |      |      |
| <b>7415A</b> | 12 | 250  | 76.2  | 40.0  | 18.2  | .022 | .56 | .050 | 1.27 | .475 | 12.07 | 292  | 1298 |
|              |    | 500  | 152.4 | 75.5  | 34.3  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 161.0 | 73.2  |      |     |      |      |      |       |      |      |
| <b>7416A</b> | 18 | 250  | 76.2  | 55.8  | 25.3  | .022 | .56 | .050 | 1.27 | .560 | 14.22 | 440  | 1957 |
|              |    | 500  | 152.4 | 112.5 | 51.1  |      |     |      |      |      |       |      |      |
|              |    |      |       |       |       |      |     |      |      |      |       |      |      |
| <b>7417A</b> | 25 | 250  | 76.2  | 74.3  | 33.8  | .022 | .56 | .072 | 1.83 | .696 | 12.68 | 520  | 2313 |
|              |    | 500  | 152.4 | 149.0 | 67.7  |      |     |      |      |      |       |      |      |
|              |    |      |       |       |       |      |     |      |      |      |       |      |      |
| <b>7418A</b> | 34 | 250  | 76.2  | 111.3 | 50.6  | .022 | .56 | .072 | 1.83 | .788 | 20.02 | 830  | 3692 |
|              |    | 500  | 152.4 | 215.5 | 98.0  |      |     |      |      |      |       |      |      |
|              |    |      |       |       |       |      |     |      |      |      |       |      |      |
| <b>7419A</b> | 41 | 250  | 76.2  | 148.3 | 67.4  | .022 | .56 | .075 | 1.91 | .860 | 21.84 | 1001 | 4453 |
|              |    | 500  | 152.4 | 295.0 | 134.1 |      |     |      |      |      |       |      |      |
|              |    |      |       |       |       |      |     |      |      |      |       |      |      |
| <b>7420A</b> | 50 | 250  | 76.2  | 186.5 | 84.8  | .022 | .56 | .083 | 2.11 | .940 | 23.88 | 1220 | 5427 |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**18 AWG** Stranded (16x30) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|               |    |     |       |       |       |      |     |                            |             |      |       |     |      |
|---------------|----|-----|-------|-------|-------|------|-----|----------------------------|-------------|------|-------|-----|------|
| <b>7411AS</b> | 4  | 250 | 76.2  | 29.0  | 13.2  | .022 | .56 | Inner: .025<br>Outer: .032 | .64<br>.81  | .365 | 9.27  | 83  | 369  |
|               |    | 500 | 152.4 | 56.5  | 25.7  |      |     |                            |             |      |       |     |      |
|               |    |     |       |       |       |      |     |                            |             |      |       |     |      |
| <b>7413AS</b> | 7  | 250 | 76.2  | 37.5  | 17.0  | .022 | .56 | Inner: .025<br>Outer: .035 | .64<br>.89  | .450 | 11.43 | 145 | 645  |
|               |    | 500 | 152.4 | 74.0  | 33.6  |      |     |                            |             |      |       |     |      |
|               |    |     |       |       |       |      |     |                            |             |      |       |     |      |
| <b>7415AS</b> | 12 | 250 | 76.2  | 61.5  | 28.0  | .022 | .56 | Inner: .025<br>Outer: .045 | .64<br>1.14 | .550 | 13.97 | 230 | 1023 |
|               |    | 500 | 152.4 | 124.0 | 56.4  |      |     |                            |             |      |       |     |      |
|               |    |     |       |       |       |      |     |                            |             |      |       |     |      |
| <b>7416AS</b> | 18 | 250 | 76.2  | 83.3  | 37.8  | .022 | .56 | Inner: .025<br>Outer: .055 | .64<br>1.40 | .650 | 16.51 | 374 | 1663 |
|               |    | 500 | 152.4 | 169.0 | 76.8  |      |     |                            |             |      |       |     |      |
|               |    |     |       |       |       |      |     |                            |             |      |       |     |      |
| <b>7417AS</b> | 25 | 250 | 76.2  | 113.8 | 51.7  | .022 | .56 | Inner: .025<br>Outer: .060 | .64<br>1.52 | .765 | 19.43 | 520 | 2313 |
|               |    | 500 | 152.4 | 228.0 | 103.6 |      |     |                            |             |      |       |     |      |
|               |    |     |       |       |       |      |     |                            |             |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

\*Based on proper installation techniques in a C-track cable guide.



By:

INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

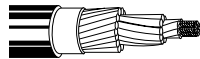
1-800-527-0010

**Belden Infinity® Flexible Automation Cable**

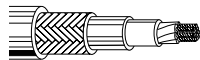
600V FCC Control Cables for Moderate Flexing

(1 Million Flex Cycles\*)

| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**16 AWG** Stranded (26x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|              |    |                    |                        |                        |                       |      |     |      |      |      |       |      |      |
|--------------|----|--------------------|------------------------|------------------------|-----------------------|------|-----|------|------|------|-------|------|------|
| <b>7421A</b> | 2  | 500<br>1000        | 152.4<br>304.8         | 35.0<br>68.0           | 15.9<br>30.9          | .022 | .56 | .040 | 1.02 | .290 | 7.37  | 70   | 311  |
| <b>7422A</b> | 3  | 250<br>500<br>1000 | 76.2<br>152.4<br>304.8 | 18.8<br>34.5<br>65.0   | 8.5<br>15.7<br>29.5   | .022 | .56 | .040 | 1.02 | .305 | 7.75  | 105  | 467  |
| <b>7423A</b> | 4  | 250<br>500<br>1000 | 76.2<br>152.4<br>304.8 | 22.5<br>41.5<br>80.0   | 10.2<br>18.9<br>36.4  | .022 | .56 | .040 | 1.02 | .330 | 8.38  | 140  | 622  |
| <b>7424A</b> | 5  | 250<br>500<br>1000 | 76.2<br>152.4<br>304.8 | 27.5<br>49.5<br>96.0   | 12.5<br>22.5<br>43.6  | .022 | .56 | .040 | 1.02 | .360 | 9.14  | 175  | 778  |
| <b>7425A</b> | 7  | 250<br>500<br>1000 | 76.2<br>152.4<br>304.8 | 35.0<br>64.0<br>129.0  | 15.9<br>29.1<br>58.6  | .022 | .56 | .040 | 1.02 | .425 | 10.80 | 236  | 1049 |
| <b>7426A</b> | 9  | 250<br>500<br>1000 | 76.2<br>152.4<br>304.8 | 50.5<br>95.0<br>190.0  | 23.0<br>43.2<br>86.4  | .022 | .56 | .060 | 1.52 | .540 | 13.72 | 304  | 1352 |
| <b>7427A</b> | 12 | 250<br>500<br>1000 | 76.2<br>152.4<br>304.8 | 55.3<br>114.0<br>220.0 | 25.1<br>51.8<br>100.0 | .022 | .56 | .065 | 1.65 | .565 | 14.35 | 405  | 1801 |
| <b>7428A</b> | 18 | 250<br>500         | 76.2<br>152.4          | 79.0<br>158.0          | 35.9<br>71.8          | .022 | .56 | .065 | 1.65 | .650 | 16.51 | 608  | 2704 |
| <b>7429A</b> | 25 | 250<br>500         | 76.2<br>152.4          | 109.0<br>218.5         | 49.5<br>99.3          | .022 | .56 | .060 | 1.52 | .750 | 19.05 | 875  | 3892 |
| <b>7430A</b> | 34 | 250<br>500         | 76.2<br>152.4          | 171.3<br>341.0         | 77.8<br>155.0         | .022 | .56 | .075 | 1.91 | .878 | 22.30 | 1145 | 5093 |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**16 AWG** Stranded (26x30) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|               |    |            |               |                |               |      |     |                                  |             |      |       |     |      |
|---------------|----|------------|---------------|----------------|---------------|------|-----|----------------------------------|-------------|------|-------|-----|------|
| <b>7422AS</b> | 3  | 250<br>500 | 76.2<br>152.4 | 30.5<br>59.5   | 13.9<br>27.0  | .022 | .56 | Inner:<br>.025<br>Outer:<br>.032 | .64<br>.81  | .370 | 9.40  | 105 | 467  |
| <b>7423AS</b> | 4  | 250<br>500 | 76.2<br>152.4 | 36.0<br>68.0   | 16.4<br>30.9  | .022 | .56 | Inner:<br>.025<br>Outer:<br>.035 | .64<br>.89  | .400 | 10.16 | 140 | 622  |
| <b>7427AS</b> | 12 | 250<br>500 | 76.2<br>152.4 | 81.8<br>164.5  | 37.2<br>74.8  | .022 | .56 | Inner:<br>.025<br>Outer:<br>.060 | .64<br>1.52 | .630 | 16.00 | 420 | 1868 |
| <b>7428AS</b> | 18 | 250<br>500 | 76.2<br>152.4 | 119.0<br>238.5 | 54.1<br>108.4 | .022 | .56 | Inner:<br>.025<br>Outer:<br>.070 | .64<br>1.78 | .740 | 18.80 | 630 | 2802 |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

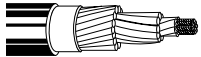
\*Based on proper installation techniques in a C-track cable guide.

**Belden Infinity® Flexible Automation Cable**

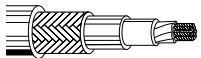
600V FCC Control Cables for Moderate Flexing

(1 Million Flex Cycles\*)

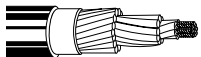
| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**14 AWG** Stranded (41x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

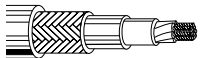
|              |    |      |       |       |       |      |     |      |      |      |       |      |      |
|--------------|----|------|-------|-------|-------|------|-----|------|------|------|-------|------|------|
| <b>7434A</b> | 2  | 250  | 76.2  | 34.0  | 15.5  | .023 | .58 | .045 | 1.14 | .335 | 8.51  | 201  | 894  |
|              |    | 500  | 152.4 | 66.5  | 30.2  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 92.0  | 41.8  |      |     |      |      |      |       |      |      |
| <b>7435A</b> | 3  | 250  | 76.2  | 39.8  | 18.1  | .023 | .58 | .045 | 1.14 | .350 | 8.89  | 201  | 894  |
|              |    | 500  | 152.4 | 78.5  | 35.7  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 98.0  | 44.5  |      |     |      |      |      |       |      |      |
| <b>7436A</b> | 4  | 250  | 76.2  | 49.3  | 22.4  | .023 | .58 | .050 | 1.27 | .395 | 10.03 | 201  | 894  |
|              |    | 500  | 152.4 | 95.0  | 43.2  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 131.0 | 59.5  |      |     |      |      |      |       |      |      |
| <b>7438A</b> | 7  | 250  | 76.2  | 74.8  | 34.0  | .023 | .58 | .060 | 1.52 | .525 | 13.34 | 373  | 1659 |
|              |    | 500  | 152.4 | 150.5 | 68.4  |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 202.0 | 91.8  |      |     |      |      |      |       |      |      |
| <b>7439A</b> | 9  | 250  | 76.2  | 110.8 | 50.3  | .023 | .58 | .070 | 1.78 | .620 | 15.75 | 480  | 2135 |
|              |    | 500  | 152.4 | 223.0 | 101.4 |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 334.0 | 151.8 |      |     |      |      |      |       |      |      |
| <b>7440A</b> | 12 | 250  | 76.2  | 142.5 | 64.8  | .023 | .58 | .075 | 1.91 | .660 | 16.76 | 640  | 2847 |
|              |    | 500  | 152.4 | 285.5 | 129.8 |      |     |      |      |      |       |      |      |
|              |    | 1000 | 304.8 | 427.0 | 194.1 |      |     |      |      |      |       |      |      |
| <b>7442A</b> | 25 | 250  | 76.2  | 223.8 | 101.7 | .023 | .58 | .090 | 2.29 | .930 | 23.62 | 1337 | 5947 |
|              |    | 500  | 152.4 | 454.5 | 206.6 |      |     |      |      |      |       |      |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**14 AWG** Stranded (41x30) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|               |   |     |       |       |      |      |     |             |      |      |       |     |      |
|---------------|---|-----|-------|-------|------|------|-----|-------------|------|------|-------|-----|------|
| <b>7436AS</b> | 4 | 250 | 76.2  | 49.3  | 22.4 | .023 | .58 | Inner: .025 | .64  | .482 | 12.24 | 212 | 943  |
|               |   | 500 | 152.4 | 95.0  | 43.2 |      |     | Outer: .055 | 1.40 |      |       |     |      |
| <b>7438AS</b> | 7 | 250 | 76.2  | 74.8  | 34.0 | .023 | .58 | Inner: .025 | .64  | .563 | 14.30 | 371 | 1650 |
|               |   | 500 | 152.4 | 150.5 | 68.4 |      |     | Outer: .060 | 1.52 |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**12 AWG** Stranded (65x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|              |   |     |       |       |      |      |     |      |      |      |       |     |      |
|--------------|---|-----|-------|-------|------|------|-----|------|------|------|-------|-----|------|
| <b>7444A</b> | 3 | 250 | 76.2  | 53.5  | 24.3 | .028 | .71 | .060 | 1.52 | .450 | 11.43 | 253 | 1125 |
|              |   | 500 | 152.4 | 103.5 | 47.0 |      |     |      |      |      |       |     |      |
| <b>7445A</b> | 4 | 250 | 76.2  | 63.5  | 28.9 | .028 | .71 | .070 | 1.78 | .505 | 12.83 | 338 | 1503 |
|              |   | 500 | 152.4 | 124.0 | 56.4 |      |     |      |      |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**12 AWG** Stranded (65x30) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket**UL AWM Style 2587 (600V 90°C)  
CSA AWM I/II A/B

|               |   |     |       |       |      |      |     |             |      |      |       |     |      |
|---------------|---|-----|-------|-------|------|------|-----|-------------|------|------|-------|-----|------|
| <b>7445AS</b> | 4 | 250 | 76.2  | 85.8  | 39.0 | .028 | .71 | Inner: .030 | .76  | .580 | 14.73 | 338 | 1503 |
|               |   | 500 | 152.4 | 171.5 | 78.0 |      |     | Outer: .070 | 1.78 |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

\*Based on proper installation techniques in a C-track cable guide.



By:

INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

**Belden Infinity® Flexible Automation Cable**

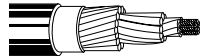
600V FCC Control Cables for Moderate Flexing

(1 Million Flex Cycles\*)

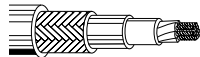
| Description | Part No. | No. of Cond. | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   |
|-------------|----------|--------------|------------------|---|----------------------|----|----------------------|----|------------------|----|------------|----|----------------------|---|
|             |          |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch             | mm | Inch       | mm | Lbs.                 | N |

**10 AWG** Stranded (105x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**

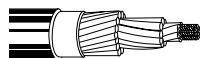
|                               |              |   |     |       |       |      |      |     |      |      |      |       |     |      |
|-------------------------------|--------------|---|-----|-------|-------|------|------|-----|------|------|------|-------|-----|------|
| UL AWM Style 2587 (600V 90°C) | <b>7447A</b> | 4 | 250 | 76.2  | 70.8  | 32.2 | .030 | .76 | .070 | 1.78 | .570 | 14.48 | 672 | 3014 |
| CSA AWM I/II A/B              |              |   | 500 | 152.4 | 142.5 | 64.8 |      |     |      |      |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**10 AWG** Stranded (105x30) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket**

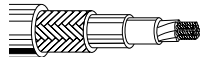
|                               |               |   |     |       |       |      |      |     |             |      |      |       |     |      |
|-------------------------------|---------------|---|-----|-------|-------|------|------|-----|-------------|------|------|-------|-----|------|
| UL AWM Style 2587 (600V 90°C) | <b>7447AS</b> | 4 | 250 | 76.2  | 92.8  | 42.2 | .030 | .76 | Inner: .035 | .89  | .660 | 16.76 | 546 | 2428 |
| CSA AWM I/II A/B              |               |   | 500 | 152.4 | 185.5 | 84.3 |      |     | Outer: .065 | 1.65 |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**8 AWG** Stranded (168x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**

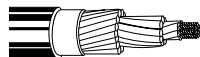
|                               |              |   |     |       |       |       |      |      |      |      |      |       |     |      |
|-------------------------------|--------------|---|-----|-------|-------|-------|------|------|------|------|------|-------|-----|------|
| UL AWM Style 2587 (600V 90°C) | <b>7449A</b> | 3 | 250 | 76.2  | 102.0 | 46.4  | .045 | 1.14 | .070 | 1.78 | .655 | 16.64 | 690 | 3069 |
| CSA AWM I/II A/B              |              |   | 500 | 152.4 | 163.0 | 74.1  |      |      |      |      |      |       |     |      |
|                               | <b>7450A</b> | 4 | 250 | 76.2  | 113.8 | 51.7  | .045 | 1.14 | .070 | 1.78 | .715 | 18.16 | 920 | 4092 |
|                               |              |   | 500 | 152.4 | 228.0 | 103.6 |      |      |      |      |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**8 AWG** Stranded (168x30) Bare Copper • 85% Tinned Copper Braid Shield (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • PVC Inner Jacket • Gray Oil- and Abrasion-resistant PVC Outer Jacket**

|                               |               |   |     |       |       |       |      |      |             |      |      |       |     |      |
|-------------------------------|---------------|---|-----|-------|-------|-------|------|------|-------------|------|------|-------|-----|------|
| UL AWM Style 2587 (600V 90°C) | <b>7450AS</b> | 4 | 250 | 76.2  | 141.3 | 64.2  | .045 | 1.14 | Inner: .040 | 1.02 | .815 | 20.70 | 872 | 3879 |
| CSA AWM I/II A/B              |               |   | 500 | 152.4 | 281.0 | 127.7 |      |      | Outer: .065 | 1.65 |      |       |     |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)**6 AWG** Stranded (266x30) Bare Copper • Unshielded (Color Code: Black w/numbers + Green/Yellow ground)**PVC Insulation • Gray Oil- and Abrasion-resistant PVC Jacket**

|                               |              |   |     |      |       |      |      |      |      |      |      |       |      |      |
|-------------------------------|--------------|---|-----|------|-------|------|------|------|------|------|------|-------|------|------|
| UL AWM Style 2587 (600V 90°C) | <b>7453A</b> | 4 | 250 | 76.2 | 185.0 | 84.1 | .060 | 1.52 | .085 | 2.16 | .925 | 23.50 | 1472 | 6548 |
| CSA AWM I/II A/B              |              |   |     |      |       |      |      |      |      |      |      |       |      |      |

Temp Rating: -40° to 90°C  
(-5° to 90°C flexing)

\*Based on proper installation techniques in a C-track cable guide.



# Belden Infinity® Flexible Automation Cable

300V Flex Data Cables

(1 Million Flex Cycles\*)

| Description | Part No. | No. of Pairs | UL NEC/ C(UL) CEC Type | RS Type | Color Code | Standard Lengths |   | Standard Unit Weight |    | Nominal OD |    | Maximum Capacitance |      | Nom. Imped. (Ω) |
|-------------|----------|--------------|------------------------|---------|------------|------------------|---|----------------------|----|------------|----|---------------------|------|-----------------|
|             |          |              |                        |         |            | Ft.              | m | Lbs.                 | kg | Inch       | mm | pF/Ft.              | pF/m |                 |

**Flex Data • 24 AWG** Stranded (41x40) Bare Copper • Twisted Pairs • Overall 100% Beldfoil® + 85% TC Braid Shield • Drain Wire†

## Foam Polyethylene Insulation with Skin • Bright Green Oil-resistant PVC Jacket

|                                                                                  |       |   |                          |            |                                          |             |                |              |              |      |      |      |      |     |
|----------------------------------------------------------------------------------|-------|---|--------------------------|------------|------------------------------------------|-------------|----------------|--------------|--------------|------|------|------|------|-----|
|  | 7200A | 1 | NEC:<br>CM<br>CEC:<br>CM | 232<br>485 | White,<br>Blue                           | 500<br>1000 | 152.4<br>304.8 | 20.5<br>40.0 | 9.3<br>18.2  | .240 | 6.10 | 15.0 | 49.2 | 120 |
|                                                                                  | 7201A | 2 | NEC:<br>CM<br>CEC:<br>CM | 232<br>485 | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8 | 26.0<br>48.0 | 11.8<br>21.8 | .322 | 8.18 | 15.0 | 49.2 | 120 |
|                                                                                  | 7202A | 3 | NEC:<br>CM<br>CEC:<br>CM | 232<br>485 | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8 | 27.5<br>52.0 | 12.5<br>23.6 | .347 | 8.81 | 15.0 | 49.2 | 120 |
|                                                                                  | 7203A | 4 | NEC:<br>CM<br>CEC:<br>CM | 232<br>485 | See<br>Chart 5<br>(Tech Info<br>Section) | 500<br>1000 | 152.4<br>304.8 | 30.0<br>59.0 | 13.6<br>26.8 | .372 | 9.45 | 15.0 | 49.2 | 120 |
|                                                                                  | 7205A | 1 | NEC:<br>CM<br>CEC:<br>CM | 232<br>422 | White,<br>Blue                           | 500<br>1000 | 152.4<br>304.8 | 19.5<br>37.0 | 8.9<br>16.8  | .232 | 5.89 | 14.0 | 45.9 | 100 |
|                                                                                  | 7206A | 1 | NEC:<br>CM<br>CEC:<br>CM | 232<br>485 | White,<br>Blue                           | 500<br>1000 | 152.4<br>304.8 | 35.0<br>67.0 | 15.9<br>30.5 | .302 | 7.67 | 10.0 | 32.8 | 150 |

Temp Rating: -20° to 80°C  
(-5° to 90°C flexing)

TC = Tinned Copper

\* Based on proper installation techniques in a C-track cable guide.

† 24 AWG stranded (41x40) tinned copper drain wire.



By:



INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

**Belden Infinity® Flexible Automation Cable**

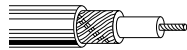
75 Ohm Flex Vision Coax Cables

(1 Million Flex Cycles\*)

| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Nom. DCR  |        | Nominal Core OD |    | Nominal OD |    | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nominal Capacitance |      | Nominal Attenuation |            |         |
|-------------|----------|------------------------------|------------------|---|----------------------|----|-----------|--------|-----------------|----|------------|----|---------------|--------------------|---------------------|------|---------------------|------------|---------|
|             |          |                              | Ft.              | m | Lbs.                 | kg | Conductor | Shield | Inch            | mm | Inch       | mm |               |                    | pF/Ft.              | pF/m | MHz                 | dB/100 Ft. | dB/100m |

**Sub-Mini Type • 30 AWG** Stranded (7x38) Tinned Cadmium Bronze • 95% Tinned Copper "French Braid" Shield**Foam Polyethylene Insulation • Electric Blue Belflex® Jacket**

|                  |              |      |      |       |     |     |           |          |      |      |      |      |    |     |      |      |     |     |     |
|------------------|--------------|------|------|-------|-----|-----|-----------|----------|------|------|------|------|----|-----|------|------|-----|-----|-----|
| UL AWM           | <b>7500A</b> | CEC: | 250  | 76.2  | 3.0 | 1.4 | 108.0Ω/M' | 13.3Ω/M' | .056 | 1.42 | .110 | 2.79 | 75 | 78% | 16.7 | 54.8 | 2.2 | .9  | .03 |
| Style 1354       |              | FT1  | 500  | 152.4 | 4.5 | 2.0 | 354.0Ω/km | 43.6Ω/km |      |      |      |      |    |     |      |      | 5   | 1.4 | .05 |
| 30V 80°C         |              |      | 1000 | 304.8 | 9.0 | 4.1 |           |          |      |      |      |      |    |     |      |      | 10  | 2.0 | .07 |
| CSA AWM I/II A/B |              |      |      |       |     |     |           |          |      |      |      |      |    |     |      |      | 30  | 3.4 | .11 |
|                  |              |      |      |       |     |     |           |          |      |      |      |      |    |     |      |      | 50  | 4.4 | .14 |
|                  |              |      |      |       |     |     |           |          |      |      |      |      |    |     |      |      | 100 | 6.4 | .21 |

**Mini Type • 25 AWG** Stranded (19x38) Bare Copper • 95% Tinned Copper "French Braid" Shield**Foam Polyethylene Insulation • Electric Blue Belflex Jacket**

|                  |              |      |      |       |      |     |           |          |      |      |      |      |    |     |      |      |     |     |     |
|------------------|--------------|------|------|-------|------|-----|-----------|----------|------|------|------|------|----|-----|------|------|-----|-----|-----|
| UL AWM           | <b>7501A</b> | CEC: | 250  | 76.2  | 4.0  | 1.8 | 35.0Ω/M'  | 9.1Ω/M'  | .090 | 2.29 | .146 | 3.71 | 75 | 77% | 17.7 | 58.1 | 2.2 | .6  | .02 |
| Style 1354       |              | FT1  | 500  | 152.4 | 7.5  | 3.4 | 114.8Ω/km | 29.9Ω/km |      |      |      |      |    |     |      |      | 5   | .9  | .03 |
| 30V 80°C         |              |      | 1000 | 304.8 | 14.0 | 6.4 |           |          |      |      |      |      |    |     |      |      | 10  | 1.3 | .04 |
| CSA AWM I/II A/B |              |      |      |       |      |     |           |          |      |      |      |      |    |     |      |      | 30  | 2.2 | .07 |
|                  |              |      |      |       |      |     |           |          |      |      |      |      |    |     |      |      | 50  | 2.9 | .10 |
|                  |              |      |      |       |      |     |           |          |      |      |      |      |    |     |      |      | 100 | 4.2 | .14 |

**RG-59 Type • 22 AWG** Stranded (19x34) Bare Copper • 95% Tinned Copper "French Braid" Shield**Foam Polyethylene Insulation • Electric Blue Belflex Jacket**

|                  |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      |     |     |     |
|------------------|--------------|------|------|-------|------|------|----------|----------|------|------|------|------|----|-----|------|------|-----|-----|-----|
| UL AWM           | <b>7502A</b> | CEC: | 250  | 76.2  | 10.5 | 4.8  | 13.4Ω/M' | 6.4Ω/M'  | .146 | 3.71 | .242 | 6.15 | 75 | 79% | 18.0 | 59.1 | 2.2 | .4  | .01 |
| Style 1354       |              | FT1  | 500  | 152.4 | 18.0 | 8.2  | 44.0Ω/km | 21.0Ω/km |      |      |      |      |    |     |      |      | 5   | .5  | .02 |
| 30V 80°C         |              |      | 1000 | 304.8 | 34.0 | 15.5 |          |          |      |      |      |      |    |     |      |      | 10  | .8  | .03 |
| CSA AWM I/II A/B |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      | 30  | 1.4 | .05 |
|                  |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      | 50  | 1.8 | .06 |
|                  |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      | 100 | 2.7 | .09 |

**RG-6/U Type • 20 AWG** Stranded (7x15x40) Bare Copper • 95% Tinned Copper "French Braid" Shield**Foam Polyethylene Insulation • Electric Blue Belflex Jacket**

|                  |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      |     |     |     |
|------------------|--------------|------|------|-------|------|------|----------|----------|------|------|------|------|----|-----|------|------|-----|-----|-----|
| UL AWM           | <b>7503A</b> | CEC: | 250  | 76.2  | 12.0 | 5.5  | 8.1Ω/M'  | 11.0Ω/M' | .185 | 4.70 | .275 | 6.99 | 75 | 80% | 17.3 | 56.8 | 2.2 | .3  | .01 |
| Style 1354       |              | FT1  | 500  | 152.4 | 21.0 | 9.5  | 26.6Ω/km | 36.1Ω/km |      |      |      |      |    |     |      |      | 5   | .4  | .01 |
| 30V 80°C         |              |      | 1000 | 304.8 | 40.0 | 18.2 |          |          |      |      |      |      |    |     |      |      | 10  | .6  | .02 |
| CSA AWM I/II A/B |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      | 30  | 1.1 | .04 |
|                  |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      | 50  | 1.5 | .05 |
|                  |              |      |      |       |      |      |          |          |      |      |      |      |    |     |      |      | 100 | 2.2 | .07 |

**RG-11 Type • 16 AWG** Stranded (7x37x40) Bare Copper • 95% Tinned Copper "French Braid" Shield**Foam Polyethylene Insulation • Electric Blue Belflex Jacket**

|                  |              |      |      |       |      |      |          |          |      |      |      |       |    |     |      |      |     |     |     |
|------------------|--------------|------|------|-------|------|------|----------|----------|------|------|------|-------|----|-----|------|------|-----|-----|-----|
| UL AWM           | <b>7504A</b> | CEC: | 250  | 76.2  | 21.8 | 9.9  | 3.5Ω/M'  | 3.6Ω/M'  | .285 | 7.24 | .405 | 10.29 | 75 | 81% | 17.3 | 56.8 | 2.2 | .2  | .01 |
| Style 1354       |              | FT1  | 500  | 152.4 | 42.5 | 19.3 | 11.5Ω/km | 11.8Ω/km |      |      |      |       |    |     |      |      | 5   | .3  | .01 |
| 30V 80°C         |              |      | 1000 | 304.8 | 84.0 | 38.2 |          |          |      |      |      |       |    |     |      |      | 10  | .4  | .01 |
| CSA AWM I/II A/B |              |      |      |       |      |      |          |          |      |      |      |       |    |     |      |      | 30  | .8  | .03 |
|                  |              |      |      |       |      |      |          |          |      |      |      |       |    |     |      |      | 50  | 1.0 | .03 |
|                  |              |      |      |       |      |      |          |          |      |      |      |       |    |     |      |      | 100 | 1.5 | .05 |



DCR = DC Resistance

\*Based on proper installation techniques in a C-track cable guide.

# Instrumentation Cable

## 300V Power-Limited Tray Cables — Overview

### Construction

Soft annealed bare or tinned copper with PVC flame retardant insulation and jacket. Other insulation and jacket options are available (see table below). Communication wire included on all multi-pair/multi-triad 1000 and 3000 series part numbers, 22 AWG (7x30) bare copper, orange PVC insulation. Nylon rip cord included in all PVC/PVC instrumentation cables.

### Other Construction Options:

| UL Listed for PLTC |                  |
|--------------------|------------------|
| Insulation/Jacket  | Max. Temp Rating |
| XLPE/PVC           | 90°C             |
| XLPE/CPE           | 90°C             |
| PVC/PVC            | 105°C            |
| PVC/CPE            | 105°C            |
| PE/PVC             | 75°C             |
| FPE/PVC            | 75°C             |
| TPE/TPE            | 105°C            |
| XLPE/Haloarrest® I | 90°C             |
| XLPE/Hypalon®      | 90°C             |

### Voltage Rating

300 Volts

### Temperature Rating

See table above.

### Application

These cables are suitable for installation in wet or dry locations. Cable jackets are resistant to sunlight, moisture and vapor penetration.

### Unshielded

Twisted non-shielded pairs and triads provide a minimal OD allowing greater tray and conduit fill. Non-shielded instrument pairs may be utilized when recommended by the instrument manufacturer and used in a metallic conduit.

### Overall Shield

Recommended for use in instrumentation applications where signals are transmitted in excess of 100 millivolts except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

### Individually Shielded and Overall Shielded

Individually shielded pairs or triads with an overall shield are recommended for use in instrumentation applications where optimum noise rejection is required. Individual pair/triad shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection.

### Specifications

- UL Subject 13
- UL Subject 2250
- NEC Article 725 Class 2 and Class 3 Circuits
- NEC Article 727
- NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.
- Sunlight-resistant.
- NEC Type ITC Listed, which is approved for cable tray use, raceways, hazardous locations according to Articles 501, 502, 503, and 504; or as aerial cable on a messenger, and under raised floors in control rooms and rack rooms where arranged to prevent damage to the cable. Usages are allowed based on qualified persons servicing all installations.
- UL 1581 Vertical Tray Flame Test comparable to IEEE 383 (70,000 BTU/hr.) Flame Test.
- PVC/PVC Constructions are CEC CMG FT4 and IEEE 1202 rated.
- Design options — call 1-800-BELDEN-1 or 1-800-BELDEN-3.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1 or 1-800-BELDEN-3.

Hypalon is a DuPont trademark.



By:



INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## Instrumentation Cable

### 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 22 AWG Pairs Stranded (7x30) Tinned Copper • Twisted Pairs

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|             |   |    |                 |                    |             |            |             |              |          |               |
|-------------|---|----|-----------------|--------------------|-------------|------------|-------------|--------------|----------|---------------|
| <b>9407</b> | 1 | E2 | U-500<br>U-1000 | U-152.4<br>U-304.8 | 9.5<br>18.0 | 4.3<br>8.2 | .037<br>.94 | .198<br>5.03 | 19<br>84 | 2.00<br>50.80 |
|-------------|---|----|-----------------|--------------------|-------------|------------|-------------|--------------|----------|---------------|

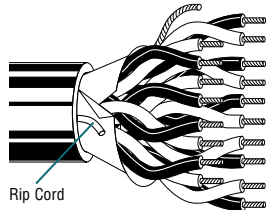


Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|             |    |    |                 |                    |                |               |              |                |             |                |
|-------------|----|----|-----------------|--------------------|----------------|---------------|--------------|----------------|-------------|----------------|
| <b>9322</b> | 1  | E2 | U-500<br>U-1000 | U-152.4<br>U-304.8 | 11.0<br>22.0   | 5.0<br>10.0   | .037<br>.94  | .200<br>5.08   | 28<br>124   | 2.00<br>50.80  |
| <b>9512</b> | 2  | E2 | 500<br>1000     | 152.4<br>304.8     | 21.0<br>42.0   | 9.5<br>19.1   | .042<br>1.07 | .308<br>7.82   | 46<br>204   | 3.00<br>76.20  |
| <b>9513</b> | 3  | E2 | 500<br>1000     | 152.4<br>304.8     | 25.5<br>51.0   | 11.6<br>23.2  | .042<br>1.07 | .324<br>8.23   | 63<br>280   | 3.25<br>82.55  |
| <b>9514</b> | 4  | E2 | 500<br>1000     | 152.4<br>304.8     | 32.5<br>67.0   | 14.8<br>30.5  | .042<br>1.07 | .356<br>9.04   | 80<br>355   | 3.50<br>88.90  |
| <b>9516</b> | 6  | E2 | 500<br>1000     | 152.4<br>304.8     | 45.5<br>94.0   | 20.7<br>42.7  | .053<br>1.35 | .418<br>10.62  | 118<br>524  | 4.25<br>107.95 |
| <b>9520</b> | 9  | E2 | 500<br>1000     | 152.4<br>304.8     | 64.5<br>121.0  | 29.3<br>55.0  | .053<br>1.35 | .454<br>11.53  | 172<br>765  | 4.75<br>120.65 |
| <b>9521</b> | 11 | E2 | 500<br>1000     | 152.4<br>304.8     | 72.0<br>146.0  | 32.7<br>66.4  | .053<br>1.35 | .506<br>12.85  | 200<br>889  | 5.35<br>135.89 |
| <b>9524</b> | 15 | E2 | 500<br>1000     | 152.4<br>304.8     | 89.5<br>178.0  | 40.7<br>80.9  | .053<br>1.35 | .594<br>15.09  | 280<br>1245 | 6.00<br>152.40 |
| <b>9526</b> | 19 | E2 | 500<br>1000     | 152.4<br>304.8     | 114.5<br>224.0 | 52.0<br>101.8 | .063<br>1.60 | .644<br>16.36  | 350<br>1557 | 6.33<br>160.78 |
| <b>9527</b> | 27 | E2 | 500<br>1000     | 152.4<br>304.8     | 156.5<br>321.0 | 71.1<br>145.9 | .063<br>1.60 | .763<br>19.38  | 500<br>2224 | 7.50<br>190.50 |
| <b>9551</b> | 51 | E2 | 1000            | 304.8              | 567.0          | 257.7         | .074<br>1.88 | 1.017<br>25.83 | 937<br>4168 | 9.50<br>241.30 |



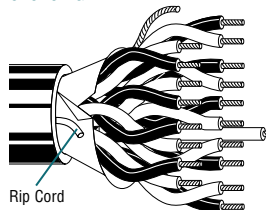
Rip Cord

#### 22 AWG Pairs Stranded (7x30) Bare Copper\* • Twisted Pairs

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|              |    |    |      |      |   |   |              |               |             |                |
|--------------|----|----|------|------|---|---|--------------|---------------|-------------|----------------|
| <b>3000A</b> | 2  | E1 | Bulk | Bulk | — | — | .043<br>1.09 | .310<br>7.87  | 46<br>204   | 3.00<br>76.20  |
| <b>3004A</b> | 4  | E1 | Bulk | Bulk | — | — | .042<br>1.07 | .351<br>8.92  | 80<br>355   | 3.50<br>88.90  |
| <b>3006A</b> | 8  | E1 | Bulk | Bulk | — | — | .053<br>1.35 | .454<br>11.53 | 172<br>765  | 4.75<br>120.65 |
| <b>3008A</b> | 12 | E1 | Bulk | Bulk | — | — | .053<br>1.35 | .536<br>13.61 | 210<br>934  | 5.00<br>127.00 |
| <b>3010A</b> | 16 | E1 | Bulk | Bulk | — | — | .053<br>1.35 | .594<br>15.09 | 290<br>1290 | 6.00<br>152.40 |
| <b>3012A</b> | 24 | E1 | Bulk | Bulk | — | — | .065<br>1.65 | .749<br>19.02 | 440<br>1957 | 7.50<br>190.50 |
| <b>3014A</b> | 50 | E1 | Bulk | Bulk | — | — | .075<br>1.91 | .950<br>24.13 | 915<br>4070 | 9.50<br>241.30 |



Rip Cord

F-R = Flame-retardant

\*For tinned copper conductors, order with B suffix.

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

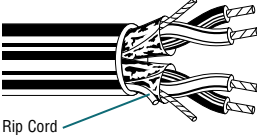
Bulk = Non-stocked item. Specify length, 1 piece per reel.

## Instrumentation Cable

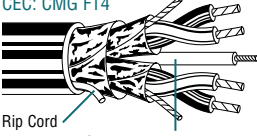
### 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs/Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |                     |            | ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 22 AWG Pairs Stranded (7x30) Tinned Copper • Twisted Pairs *(continued)*

| Individually Shielded • F-R PVC Insulation • F-R PVC Jacket                                      |      |    |    |             |                |                |                |      |      |       |       |     |      |       |        |
|--------------------------------------------------------------------------------------------------|------|----|----|-------------|----------------|----------------|----------------|------|------|-------|-------|-----|------|-------|--------|
|  <p>Rip Cord</p> | 9328 | 2  | E2 | 500<br>1000 | 152.4<br>304.8 | 22.5<br>46.0   | 10.2<br>20.9   | .042 | 1.07 | .323  | 8.20  | 54  | 240  | 3.00  | 76.20  |
|                                                                                                  | 9329 | 3  | E2 | 500<br>1000 | 152.4<br>304.8 | 29.0<br>60.0   | 13.2<br>27.3   | .042 | 1.07 | .341  | 8.66  | 54  | 240  | 3.50  | 88.90  |
|                                                                                                  | 9330 | 4  | E2 | 500<br>1000 | 152.4<br>304.8 | 37.0<br>72.0   | 16.8<br>32.7   | .042 | 1.07 | .372  | 9.45  | 65  | 289  | 3.50  | 88.90  |
|                                                                                                  | 9331 | 6  | E2 | 500<br>1000 | 152.4<br>304.8 | 54.0<br>108.0  | 24.5<br>49.1   | .053 | 1.35 | .457  | 11.61 | 101 | 449  | 4.33  | 109.98 |
|                                                                                                  | 9332 | 9  | E2 | 500<br>1000 | 152.4<br>304.8 | 75.0<br>145.0  | 34.1<br>65.9   | .053 | 1.35 | .530  | 13.46 | 160 | 711  | 5.00  | 127.00 |
|                                                                                                  | 9333 | 11 | E2 | 500<br>1000 | 152.4<br>304.8 | 89.0<br>177.0  | 40.5<br>80.5   | .053 | 1.35 | .592  | 15.04 | 160 | 711  | 5.50  | 139.70 |
|                                                                                                  | 9335 | 19 | E2 | 500<br>1000 | 152.4<br>304.8 | 141.5<br>287.0 | 64.3<br>130.5  | .063 | 1.60 | .711  | 18.06 | 264 | 1174 | 6.50  | 165.10 |
|                                                                                                  | 9337 | 51 | E2 | 500<br>1000 | 152.4<br>304.8 | 392.5<br>741.0 | 178.4<br>336.8 | .074 | 1.88 | 1.132 | 28.75 | 658 | 2927 | 10.00 | 254.00 |

#### 22 AWG Pairs Stranded (7x30) Bare Copper\* • Twisted Pairs

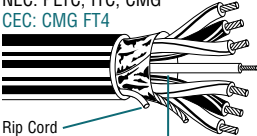
| Individually Shielded + Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket                                 |       |    |    |      |      |   |   |      |      |       |       |      |      |       |        |
|-----------------------------------------------------------------------------------------------------------------------------|-------|----|----|------|------|---|---|------|------|-------|-------|------|------|-------|--------|
|  <p>Rip Cord</p> <p>Communication Wire</p> | 3001A | 2  | E1 | Bulk | Bulk | — | — | .042 | 1.07 | .324  | 8.23  | 54   | 240  | 3.25  | 82.55  |
|                                                                                                                             | 3005A | 4  | E1 | Bulk | Bulk | — | — | .043 | 1.09 | .360  | 9.14  | 115  | 511  | 3.50  | 88.90  |
|                                                                                                                             | 3007A | 8  | E1 | Bulk | Bulk | — | — | .053 | 1.35 | .497  | 12.62 | 250  | 1112 | 5.25  | 133.35 |
|                                                                                                                             | 3009A | 12 | E1 | Bulk | Bulk | — | — | .053 | 1.35 | .570  | 14.48 | 300  | 1334 | 5.75  | 146.05 |
|                                                                                                                             | 3011A | 16 | E1 | Bulk | Bulk | — | — | .064 | 1.63 | .674  | 17.12 | 350  | 1557 | 6.25  | 158.75 |
|                                                                                                                             | 3013A | 24 | E1 | Bulk | Bulk | — | — | .065 | 1.65 | .800  | 20.32 | 540  | 2402 | 8.00  | 203.20 |
|                                                                                                                             | 3015A | 50 | E1 | Bulk | Bulk | — | — | .075 | 1.91 | 1.050 | 26.67 | 1330 | 5916 | 10.50 | 266.70 |

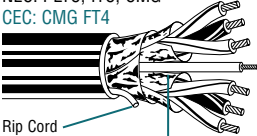
#### 22 AWG Triads Stranded (7x30) Tinned Copper • Twisted Triads

| Unshielded • F-R PVC Insulation • F-R PVC Jacket                                                   |      |   |    |        |         |      |      |      |     |      |      |    |     |      |       |
|----------------------------------------------------------------------------------------------------|------|---|----|--------|---------|------|------|------|-----|------|------|----|-----|------|-------|
|  <p>Rip Cord</p> | 9491 | 1 | E1 | U-500  | U-152.4 | 12.0 | 5.5  | .037 | .94 | .208 | 5.28 | 29 | 129 | 2.00 | 50.80 |
|                                                                                                    |      |   |    | U-1000 | U-304.8 | 24.0 | 10.9 |      |     |      |      |    |     |      |       |

| Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket                                 |      |   |    |        |         |      |      |      |     |      |      |    |     |      |       |
|----------------------------------------------------------------------------------------------------|------|---|----|--------|---------|------|------|------|-----|------|------|----|-----|------|-------|
|  <p>Rip Cord</p> | 9363 | 1 | E1 | U-500  | U-152.4 | 13.5 | 6.1  | .037 | .94 | .210 | 5.33 | 29 | 129 | 2.00 | 50.80 |
|                                                                                                    |      |   |    | U-1000 | U-304.8 | 26.0 | 11.8 |      |     |      |      |    |     |      |       |

#### 22 AWG Triads Stranded (7x30) Bare Copper\* • Twisted Triads

| Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket                                                           |       |   |    |      |      |   |   |      |      |      |      |    |     |      |       |
|------------------------------------------------------------------------------------------------------------------------------|-------|---|----|------|------|---|---|------|------|------|------|----|-----|------|-------|
|  <p>Rip Cord</p> <p>Communication Wire</p> | 3002A | 2 | E1 | Bulk | Bulk | — | — | .043 | 1.09 | .330 | 8.38 | 62 | 275 | 3.50 | 88.90 |
|                                                                                                                              |       |   |    |      |      |   |   |      |      |      |      |    |     |      |       |

| Individually Shielded + Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket                                   |       |   |    |      |      |   |   |      |      |      |      |    |     |      |       |
|------------------------------------------------------------------------------------------------------------------------------|-------|---|----|------|------|---|---|------|------|------|------|----|-----|------|-------|
|  <p>Rip Cord</p> <p>Communication Wire</p> | 3003A | 2 | E1 | Bulk | Bulk | — | — | .043 | 1.09 | .330 | 8.38 | 82 | 364 | 3.25 | 82.55 |
|                                                                                                                              |       |   |    |      |      |   |   |      |      |      |      |    |     |      |       |

F-R = Flame-retardant

\*For tinned copper conductors, order with B suffix.

E1, E2 = Refer to Industrial Technical Information section for color code. Alternate color coding available upon request. • Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.



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## Instrumentation Cable

### 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 20 AWG Pairs Stranded (19x32) Tinned Copper • Twisted Pairs

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

|                                     |      |   |    |                 |                    |              |             |      |     |      |      |    |     |      |       |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4 | 9408 | 1 | E2 | U-500<br>U-1000 | U-152.4<br>U-304.8 | 12.0<br>23.0 | 5.5<br>10.5 | .037 | .94 | .214 | 5.44 | 31 | 138 | 2.00 | 50.80 |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|



Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

|                                     |      |   |    |                 |                    |              |             |      |     |      |      |    |     |      |       |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4 | 9320 | 1 | E2 | U-500<br>U-1000 | U-152.4<br>U-304.8 | 13.5<br>26.0 | 6.1<br>11.8 | .037 | .94 | .217 | 5.51 | 40 | 178 | 2.00 | 50.80 |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|



Rip Cord

#### 20 AWG Pairs Stranded (7x28) Bare Copper\* • Twisted Pairs

##### Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket

|                                                                                    |       |    |    |       |        |        |       |      |      |       |       |      |      |       |        |
|------------------------------------------------------------------------------------|-------|----|----|-------|--------|--------|-------|------|------|-------|-------|------|------|-------|--------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4                                                | 1033A | 1  | E1 | 1000  | 304.8  | 29.0   | 13.2  | .037 | .94  | .213  | 5.41  | 42   | 187  | 2.25  | 57.15  |
|                                                                                    |       |    |    | 10000 | 3048.0 | 300.0  | 136.4 |      |      |       |       |      |      |       |        |
|  | 3016A | 2  | E1 | Bulk  | Bulk   | —      | —     | .042 | 1.07 | .332  | 8.43  | 92   | 409  | 3.75  | 95.25  |
|                                                                                    | 1056A | 4  | E1 | 10000 | 3048.0 | 970.0  | 440.9 | .053 | 1.35 | .408  | 10.36 | 135  | 601  | 4.25  | 107.95 |
|                                                                                    | 1057A | 8  | E1 | 10000 | 3048.0 | 1410.0 | 640.9 | .053 | 1.35 | .472  | 11.99 | 247  | 1099 | 5.00  | 127.00 |
|                                                                                    | 1058A | 12 | E1 | 7500  | 2286.0 | 1537.5 | 698.9 | .053 | 1.35 | .564  | 14.33 | 359  | 1597 | 6.00  | 152.40 |
|                                                                                    | 1059A | 16 | E1 | 5000  | 1524.0 | 1275.0 | 579.5 | .064 | 1.63 | .649  | 16.48 | 471  | 2095 | 6.50  | 165.10 |
|                                                                                    | 1060A | 24 | E1 | 5000  | 1524.0 | 1735.0 | 788.6 | .064 | 1.63 | .786  | 19.96 | 695  | 3092 | 8.25  | 209.55 |
|                                                                                    | 1061A | 36 | E1 | 2500  | 762.0  | 1347.5 | 612.5 | .074 | 1.88 | .960  | 24.38 | 1031 | 4587 | 10.00 | 254.00 |
|                                                                                    | 1062A | 50 | E1 | 2500  | 762.0  | 1825.0 | 829.5 | .074 | 1.88 | 1.117 | 28.37 | 1423 | 6330 | 11.50 | 292.10 |

##### Individually Shielded + Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket

|                                     |       |    |    |       |        |        |       |      |      |       |       |      |      |       |        |
|-------------------------------------|-------|----|----|-------|--------|--------|-------|------|------|-------|-------|------|------|-------|--------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4 | 1075A | 2  | E1 | 10000 | 3048.0 | 760.0  | 345.5 | .042 | 1.07 | .337  | 8.56  | 97   | 432  | 3.75  | 95.25  |
|                                     | 1076A | 4  | E1 | 7500  | 2286.0 | 802.5  | 364.8 | .053 | 1.35 | .411  | 10.44 | 171  | 761  | 4.50  | 114.30 |
|                                     | 1077A | 8  | E1 | 7500  | 2286.0 | 1335.0 | 606.8 | .053 | 1.35 | .514  | 13.06 | 320  | 1424 | 5.50  | 139.70 |
|                                     | 1078A | 12 | E1 | 7500  | 2286.0 | 2010.0 | 913.6 | .064 | 1.63 | .637  | 16.18 | 468  | 2082 | 6.75  | 171.45 |
|                                     | 1079A | 16 | E1 | 5000  | 1524.0 | 1630.0 | 740.9 | .064 | 1.63 | .704  | 17.88 | 617  | 2745 | 7.50  | 190.50 |
|                                     | 1091A | 20 | E1 | 5000  | 1524.0 | 2030.0 | 922.7 | .064 | 1.63 | .780  | 19.81 | 765  | 3403 | 8.25  | 209.55 |
|                                     | 1080A | 24 | E1 | 2500  | 762.0  | 1267.5 | 576.1 | .074 | 1.88 | .863  | 21.92 | 914  | 4066 | 9.00  | 228.60 |
|                                     | 1081A | 36 | E1 | 2000  | 609.6  | 1436.0 | 652.7 | .074 | 1.88 | 1.035 | 26.29 | 1359 | 6046 | 10.50 | 266.70 |
|                                     | 1082A | 50 | E1 | 2000  | 609.6  | 1858.0 | 844.5 | .074 | 1.88 | 1.215 | 30.86 | 1878 | 8355 | 12.75 | 323.85 |

F-R = Flame-retardant

\*For Tinned copper conductors, order with B suffix.

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

# Instrumentation Cable

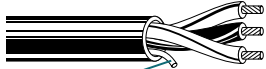
## 300V Power-Limited Tray Cables

| Description | Part No. | No. of Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |               |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 20 AWG Triads Stranded (19x32) Tinned Copper • Twisted Triads

#### Unshielded • F-R PVC Insulation • F-R PVC Jacket

|                                     |      |   |    |                 |                    |              |             |      |     |      |      |    |     |      |       |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4 | 9492 | 1 | E1 | U-500<br>U-1000 | U-152.4<br>U-304.8 | 15.5<br>30.0 | 7.0<br>13.6 | .037 | .94 | .225 | 5.72 | 46 | 205 | 2.25 | 57.15 |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|



Rip Cord

#### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

|                                     |      |   |    |                 |                    |              |             |      |     |      |      |    |     |      |       |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4 | 9364 | 1 | E1 | U-500<br>U-1000 | U-152.4<br>U-304.8 | 17.5<br>34.0 | 8.0<br>15.5 | .037 | .94 | .228 | 5.79 | 46 | 205 | 2.25 | 57.15 |
|-------------------------------------|------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|

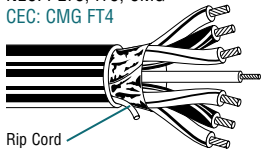


Rip Cord

### 20 AWG Triads Stranded (7x28) Bare Copper\* • Twisted Triads

#### Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket

|                                     |       |    |    |       |        |       |       |      |      |       |       |     |      |      |        |
|-------------------------------------|-------|----|----|-------|--------|-------|-------|------|------|-------|-------|-----|------|------|--------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4 | 1526A | 1  | E1 | 10000 | 3048.0 | 320.0 | 145.5 | .037 | .94  | .224  | 5.69  | 42  | 187  | 2.25 | 57.15  |
|                                     | 3017A | 2  | E1 | Bulk  | Bulk   | —     | —     | .055 | 1.40 | .380  | 9.65  | 97  | 432  | 4.00 | 101.60 |
|                                     | 3020A | 4  | E1 | Bulk  | Bulk   | —     | —     | .055 | 1.40 | .470  | 11.94 | 174 | 774  | 4.75 | 120.65 |
|                                     | 3021A | 8  | E1 | Bulk  | Bulk   | —     | —     | .055 | 1.40 | .560  | 14.22 | 330 | 1468 | 5.00 | 127.00 |
|                                     | 3022A | 12 | E1 | Bulk  | Bulk   | —     | —     | .066 | 1.68 | .710  | 18.03 | 485 | 2158 | 7.00 | 177.80 |
|                                     | 3023A | 16 | E1 | Bulk  | Bulk   | —     | —     | .064 | 1.63 | .821  | 20.85 | 600 | 2669 | 7.75 | 196.85 |
|                                     | 3024A | 24 | E1 | Bulk  | Bulk   | —     | —     | .074 | 1.88 | 1.031 | 26.19 | 920 | 4093 | 9.25 | 234.95 |



Rip Cord

#### Individually Shielded + Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket

|                                     |       |    |    |       |        |        |       |      |      |       |       |      |      |       |        |
|-------------------------------------|-------|----|----|-------|--------|--------|-------|------|------|-------|-------|------|------|-------|--------|
| NEC: PLTC, ITC, CMG<br>CEC: CMG FT4 | 3018A | 2  | E1 | Bulk  | Bulk   | —      | —     | .055 | 1.40 | .420  | 10.67 | 102  | 454  | 4.25  | 107.95 |
|                                     | 1083A | 4  | E1 | 10000 | 3048.0 | 1410.8 | 640.9 | .053 | 1.35 | .499  | 12.67 | 228  | 1014 | 4.75  | 120.65 |
|                                     | 1084A | 8  | E1 | 7500  | 2286.0 | 1852.5 | 842.0 | .064 | 1.63 | .575  | 10.81 | 432  | 1922 | 6.25  | 158.75 |
|                                     | 1085A | 12 | E1 | 5000  | 1524.0 | 1765.0 | 802.3 | .064 | 1.63 | .714  | 18.14 | 636  | 2829 | 7.75  | 196.85 |
|                                     | 1092A | 16 | E1 | 5000  | 1524.0 | 2190.0 | 995.5 | .064 | 1.63 | .793  | 20.14 | 841  | 3741 | 8.50  | 215.90 |
|                                     | 1086A | 20 | E1 | 2500  | 762.0  | 1622.5 | 737.5 | .074 | 1.88 | .996  | 25.30 | 1250 | 5561 | 10.75 | 273.05 |
|                                     | 3067A | 24 | E1 | Bulk  | Bulk   | —      | —     | .074 | 1.88 | 1.292 | 32.82 | 1410 | 6273 | 13.00 | 330.20 |

F-R = Flame-retardant

\*For Tinned copper conductors, order with B suffix.

E1 = Refer to Industrial Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.



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## Instrumentation Cable

### 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 18 AWG Pairs Stranded (19x30) Tinned Copper • Twisted Pairs

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

**9409** 1 E2 U-500 U-152.4 14.5 6.6 .037 .94 .230 5.84 49 218 2.25 57.15

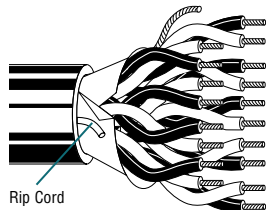


Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|             |    |    |                 |                    |                |               |      |      |      |       |     |      |      |        |
|-------------|----|----|-----------------|--------------------|----------------|---------------|------|------|------|-------|-----|------|------|--------|
| <b>9318</b> | 1  | E2 | U-500<br>U-1000 | U-152.4<br>U-304.8 | 18.0<br>35.0   | 8.2<br>15.9   | .037 | .94  | .233 | 5.92  | 60  | 267  | 2.25 | 57.15  |
| <b>9552</b> | 2  | E2 | 500<br>1000     | 152.4<br>304.8     | 35.5<br>69.0   | 16.1<br>31.4  | .042 | 1.07 | .375 | 9.53  | 65  | 289  | 3.75 | 95.25  |
| <b>9553</b> | 3  | E2 | 500<br>1000     | 152.4<br>304.8     | 48.5<br>95.0   | 22.0<br>43.2  | .053 | 1.35 | .420 | 10.67 | 145 | 645  | 4.25 | 107.95 |
| <b>9554</b> | 4  | E2 | 500<br>1000     | 152.4<br>304.8     | 55.0<br>109.0  | 25.0<br>49.5  | .053 | 1.35 | .447 | 11.35 | 187 | 832  | 4.50 | 114.30 |
| <b>9556</b> | 6  | E2 | 500<br>1000     | 152.4<br>304.8     | 78.5<br>153.0  | 35.7<br>69.5  | .053 | 1.35 | .497 | 12.62 | 270 | 1201 | 5.00 | 127.00 |
| <b>9559</b> | 9  | E2 | 500<br>1000     | 152.4<br>304.8     | 107.5<br>213.0 | 48.9<br>96.8  | .053 | 1.35 | .579 | 14.71 | 395 | 1757 | 6.00 | 152.40 |
| <b>9563</b> | 11 | E2 | 500<br>1000     | 152.4<br>304.8     | 134.5<br>273.0 | 61.1<br>124.1 | .063 | 1.60 | .665 | 16.89 | 478 | 2126 | 6.75 | 171.45 |
| <b>9565</b> | 15 | E2 | 500<br>1000     | 152.4<br>304.8     | 169.0<br>342.0 | 76.8<br>155.5 | .063 | 1.60 | .739 | 18.77 | 640 | 2847 | 7.50 | 190.50 |



Rip Cord

##### Individually Shielded • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|              |    |    |             |                |                |               |      |      |      |       |      |      |      |        |
|--------------|----|----|-------------|----------------|----------------|---------------|------|------|------|-------|------|------|------|--------|
| <b>9368</b>  | 2  | E2 | 500<br>1000 | 152.4<br>304.8 | 37.5<br>73.0   | 17.0<br>33.2  | .042 | 1.07 | .378 | 9.60  | 125  | 556  | 3.75 | 95.25  |
| <b>9369</b>  | 3  | E2 | 500<br>1000 | 152.4<br>304.8 | 55.0<br>109.0  | 25.0<br>49.5  | .053 | 1.35 | .423 | 10.74 | 220  | 979  | 4.25 | 107.95 |
| <b>3029A</b> | 4  | E1 | Bulk        | Bulk           | —              | —             | .053 | 1.35 | .461 | 11.71 | 296  | 1317 | 4.50 | 114.30 |
| <b>9388</b>  | 4  | E2 | 500<br>1000 | 152.4<br>304.8 | 71.5<br>135.0  | 32.5<br>61.4  | .053 | 1.35 | .461 | 11.71 | 296  | 1317 | 4.50 | 114.30 |
| <b>9389</b>  | 6  | E2 | 500<br>1000 | 152.4<br>304.8 | 97.0<br>190.0  | 44.1<br>86.4  | .053 | 1.35 | .538 | 13.67 | 440  | 1957 | 5.25 | 133.35 |
| <b>9390</b>  | 9  | E2 | 500<br>1000 | 152.4<br>304.8 | 138.5<br>272.0 | 63.0<br>123.6 | .064 | 1.63 | .652 | 16.56 | 666  | 2963 | 6.50 | 165.10 |
| <b>9391</b>  | 11 | E2 | 500<br>1000 | 152.4<br>304.8 | 158.5<br>321.0 | 72.0<br>145.9 | .064 | 1.63 | .729 | 18.52 | 815  | 3626 | 7.25 | 184.15 |
| <b>9392</b>  | 15 | E2 | 500<br>1000 | 152.4<br>304.8 | 209.0<br>428.0 | 95.0<br>194.5 | .064 | 1.63 | .808 | 20.52 | 1100 | 4893 | 8.00 | 203.20 |

F-R = Flame-retardant

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.



## Instrumentation Cable

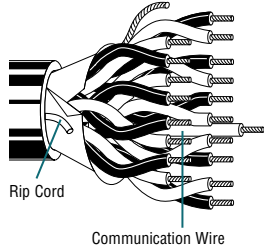
### 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 18 AWG Pairs Stranded (7x26) Bare Copper • Twisted Pairs

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket (See chart below for other options)

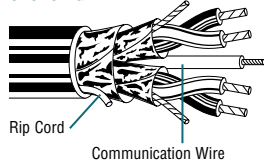
NEC: PLTC, ITC, CMG  
CEC: CMG FT4



|              |    |    |       |        |        |        |      |      |       |       |      |       |       |        |
|--------------|----|----|-------|--------|--------|--------|------|------|-------|-------|------|-------|-------|--------|
| <b>1032A</b> | 1  | E1 | 1000  | 304.8  | 39.0   | 17.7   | .037 | .94  | .233  | 5.92  | 67   | 298   | 2.50  | 63.50  |
|              |    |    | 10000 | 3048.0 | 410.0  | 186.4  |      |      |       |       |      |       |       |        |
| <b>3025A</b> | 2  | E1 | Bulk  | Bulk   | —      | —      | .042 | 1.07 | .375  | 9.53  | 112  | 498   | 3.50  | 88.90  |
| <b>1529A</b> | 3  | E1 | 7500  | 2286.0 | 742.5  | 337.5  | .053 | 1.35 | .415  | 10.54 | 165  | 734   | 4.25  | 107.95 |
| <b>1466A</b> | 4  | E1 | 7500  | 2286.0 | 870.0  | 395.5  | .053 | 1.35 | .452  | 11.48 | 211  | 939   | 4.50  | 114.30 |
| <b>1467A</b> | 8  | E1 | 7500  | 2286.0 | 1432.5 | 651.1  | .053 | 1.35 | .542  | 13.77 | 389  | 1731  | 5.50  | 139.70 |
| <b>1468A</b> | 12 | E1 | 5000  | 1524.0 | 2350.0 | 1068.2 | .064 | 1.63 | .673  | 17.09 | 560  | 2491  | 6.75  | 171.45 |
| <b>3034A</b> | 16 | E1 | Bulk  | Bulk   | —      | —      | .066 | 1.68 | .738  | 18.75 | 640  | 2847  | 7.50  | 190.50 |
| <b>1471A</b> | 24 | E1 | 2500  | 762.0  | 1302.5 | 592.0  | .074 | 1.88 | .932  | 23.67 | 1105 | 4916  | 9.25  | 234.95 |
| <b>1472A</b> | 36 | E1 | 1250  | 381.0  | 910.0  | 413.6  | .074 | 1.88 | 1.062 | 26.97 | 1640 | 7296  | 10.50 | 266.70 |
| <b>3041A</b> | 50 | E1 | Bulk  | Bulk   | —      | —      | .074 | 1.88 | 1.240 | 31.50 | 2240 | 10049 | 12.75 | 323.85 |

##### Individually Shielded + Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket (See chart for other options)

NEC: PLTC, ITC, CMG  
CEC: CMG FT4



|              |    |    |      |        |        |       |      |      |       |       |      |       |       |        |
|--------------|----|----|------|--------|--------|-------|------|------|-------|-------|------|-------|-------|--------|
| <b>1474A</b> | 2  | E1 | 7500 | 2286.0 | 720.0  | 327.3 | .053 | 1.35 | .408  | 10.16 | 149  | 663   | 4.00  | 101.60 |
| <b>1475A</b> | 4  | E1 | 7500 | 2286.0 | 1057.5 | 480.7 | .053 | 1.35 | .468  | 11.89 | 267  | 1188  | 4.75  | 120.65 |
| <b>1476A</b> | 8  | E1 | 5000 | 1524.0 | 1185.0 | 538.6 | .053 | 1.35 | .590  | 14.99 | 501  | 2229  | 6.00  | 152.40 |
| <b>1477A</b> | 12 | E1 | 5000 | 1524.0 | 1815.0 | 825.0 | .064 | 1.63 | .733  | 18.62 | 779  | 3465  | 7.25  | 184.15 |
| <b>3035A</b> | 16 | E1 | Bulk | Bulk   | —      | —     | .064 | 1.63 | .805  | 20.45 | 850  | 3781  | 8.50  | 215.90 |
| <b>1480A</b> | 24 | E1 | 2500 | 762.0  | 1712.5 | 778.4 | .074 | 1.88 | 1.019 | 25.88 | 1440 | 6406  | 10.25 | 260.35 |
| <b>1481A</b> | 36 | E1 | 1250 | 381.0  | 1165.0 | 529.5 | .074 | 1.88 | 1.163 | 29.54 | 2148 | 9556  | 11.75 | 298.45 |
| <b>3042A</b> | 50 | E1 | Bulk | Bulk   | —      | —     | .084 | 2.13 | 1.389 | 35.28 | 2935 | 13057 | 14.00 | 355.60 |

F-R = Flame-retardant

E1 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options

| To Specify:                | Bare     | Tinned   | Insulation/Jacket  |
|----------------------------|----------|----------|--------------------|
| <b>1234 A</b>              | <b>A</b> | <b>B</b> | PVC/PVC            |
| Start with Part No.        | <b>C</b> | <b>D</b> | XLPE/PVC           |
| Add or replace letter code | <b>K</b> | <b>L</b> | TPE/TPE            |
|                            | <b>Q</b> | <b>R</b> | XLPE/CPE           |
|                            | <b>S</b> | <b>T</b> | XLPE/Haloarrest® I |



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**1-800-527-0010**

## Instrumentation Cable

### 300V Power-Limited Tray Cables

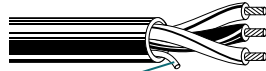
| Description | Part No. | No. of Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |               |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 18 AWG Triads Stranded (19x30) Tinned Copper • Twisted Triads

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|      |   |    |        |         |      |      |      |     |      |      |    |     |      |       |
|------|---|----|--------|---------|------|------|------|-----|------|------|----|-----|------|-------|
| 9493 | 1 | E1 | U-500  | U-152.4 | 19.5 | 8.9  | .037 | .94 | .242 | 6.15 | 62 | 276 | 2.25 | 57.15 |
|      |   |    | U-1000 | U-304.8 | 39.0 | 17.7 |      |     |      |      |    |     |      |       |



Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|      |   |    |        |         |      |      |      |     |      |      |    |     |      |       |
|------|---|----|--------|---------|------|------|------|-----|------|------|----|-----|------|-------|
| 9365 | 1 | E1 | U-500  | U-152.4 | 22.5 | 10.2 | .037 | .94 | .245 | 6.22 | 74 | 329 | 2.50 | 63.50 |
|      |   |    | U-1000 | U-304.8 | 44.0 | 20.0 |      |     |      |      |    |     |      |       |



Rip Cord

#### 18 AWG Triads Stranded (7x26) Bare Copper • Twisted Triads

##### Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket (See chart below for other options)

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|       |    |    |       |        |       |       |      |      |       |       |      |      |       |        |
|-------|----|----|-------|--------|-------|-------|------|------|-------|-------|------|------|-------|--------|
| 1036A | 1  | E1 | 1000  | 304.8  | 46.0  | 20.9  | .037 | .94  | .245  | 6.22  | 90   | 400  | 2.50  | 63.50  |
|       |    |    | 10000 | 3048.0 | 470.0 | 213.6 |      |      |       |       |      |      |       |        |
| 3027A | 2  | E1 | Bulk  | Bulk   | —     | —     | .055 | 1.40 | .420  | 10.67 | 165  | 734  | 4.25  | 107.95 |
| 3030A | 4  | E1 | Bulk  | Bulk   | —     | —     | .055 | 1.40 | .500  | 12.70 | 240  | 1068 | 4.50  | 114.30 |
| 3032A | 8  | E1 | Bulk  | Bulk   | —     | —     | .064 | 1.63 | .665  | 16.89 | 501  | 2229 | 5.75  | 146.05 |
| 3036A | 16 | E1 | Bulk  | Bulk   | —     | —     | .077 | 1.96 | .900  | 22.86 | 1050 | 4671 | 9.00  | 228.60 |
| 3038A | 24 | E1 | Bulk  | Bulk   | —     | —     | .077 | 1.96 | 1.020 | 25.91 | 1450 | 6450 | 10.25 | 260.35 |



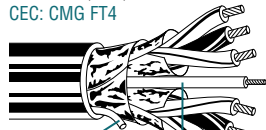
Rip Cord

Communication Wire

##### Individually Shielded + Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket (See chart for options)

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|       |    |    |      |      |   |   |      |      |       |       |      |      |       |        |
|-------|----|----|------|------|---|---|------|------|-------|-------|------|------|-------|--------|
| 3028A | 2  | E1 | Bulk | Bulk | — | — | .055 | 1.40 | .450  | 11.43 | 175  | 779  | 4.50  | 114.30 |
| 3031A | 4  | E1 | Bulk | Bulk | — | — | .053 | 1.35 | .513  | 13.03 | 255  | 1134 | 5.25  | 133.35 |
| 3033A | 8  | E1 | Bulk | Bulk | — | — | .064 | 1.63 | .685  | 17.40 | 560  | 2491 | 6.50  | 165.10 |
| 3068A | 12 | E1 | Bulk | Bulk | — | — | .063 | 1.60 | .826  | 20.98 | 800  | 3559 | 8.50  | 215.90 |
| 3037A | 16 | E1 | Bulk | Bulk | — | — | .074 | 1.88 | .940  | 23.88 | 1320 | 5872 | 10.50 | 266.70 |
| 3039A | 24 | E1 | Bulk | Bulk | — | — | .074 | 1.88 | 1.158 | 29.41 | 1620 | 7207 | 11.25 | 285.75 |



Rip Cord

Communication Wire

F-R = Flame-retardant

E1 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options\*\*

##### To Specify:

1234 A

Start with Part No.

Add or replace letter code

| Bare | Tinned | Insulation/Jacket  |
|------|--------|--------------------|
| A    | B      | PVC/PVC            |
| C    | D      | XLPE/PVC           |
| K    | L      | TPE/TPE            |
| Q    | R      | XLPE/CPE           |
| S    | T      | XLPE/Haloarrest® I |

\*\*For 1000 and 3000 Series cables only.



# Instrumentation Cable

## 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 16 AWG Pairs Stranded (19x29) Tinned Copper • Twisted Pairs

#### Unshielded • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |        |         |      |      |      |     |      |      |    |     |      |       |
|---------------------|------|---|----|--------|---------|------|------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG | 9410 | 1 | E2 | U-500  | U-152.4 | 19.0 | 8.6  | .037 | .94 | .254 | 6.45 | 60 | 267 | 2.50 | 63.50 |
| CEC: CMG FT4        |      |   |    | U-1000 | U-304.8 | 37.0 | 16.8 |      |     |      |      |    |     |      |       |



Rip Cord

#### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |        |         |      |      |      |     |      |      |    |     |      |       |
|---------------------|------|---|----|--------|---------|------|------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG | 9316 | 1 | E2 | U-500  | U-152.4 | 21.5 | 9.8  | .037 | .94 | .256 | 6.50 | 90 | 400 | 2.50 | 63.50 |
| CEC: CMG FT4        |      |   |    | U-1000 | U-304.8 | 43.0 | 19.5 |      |     |      |      |    |     |      |       |



Rip Cord

### 16 AWG Pairs Stranded (7x24) Bare Copper • Twisted Pairs

#### Unshielded • F-R PVC Insulation • F-R PVC Jacket (See chart below for other insulation and jacket options)

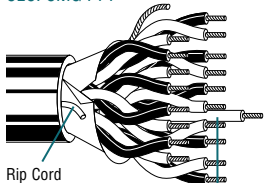
|                     |       |   |    |       |        |       |       |      |     |      |      |    |     |      |       |
|---------------------|-------|---|----|-------|--------|-------|-------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG | 1035A | 1 | E1 | 1000  | 304.8  | 38.0  | 17.3  | .037 | .94 | .254 | 6.45 | 72 | 320 | 2.50 | 63.50 |
| CEC: CMG FT4        |       |   |    | 10000 | 3048.0 | 410.0 | 186.4 |      |     |      |      |    |     |      |       |



Rip Cord

#### Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket (See chart below for other options)

|                     |       |    |    |       |        |        |       |      |      |       |       |      |       |       |        |
|---------------------|-------|----|----|-------|--------|--------|-------|------|------|-------|-------|------|-------|-------|--------|
| NEC: PLTC, ITC, CMG | 1030A | 1  | E1 | 1000  | 304.8  | 45.0   | 20.5  | .037 | .94  | .257  | 6.53  | 94   | 418   | 2.50  | 63.50  |
| CEC: CMG FT4        |       |    |    | 10000 | 3048.0 | 470.0  | 213.6 |      |      |       |       |      |       |       |        |
|                     | 3043A | 2  | E1 | Bulk  | Bulk   | —      | —     | .053 | 1.35 | .437  | 11.10 | 188  | 836   | 4.50  | 114.30 |
|                     | 1528A | 3  | E1 | 7500  | 2286.0 | 982.5  | 446.6 | .053 | 1.35 | .457  | 11.61 | 259  | 1152  | 4.75  | 120.65 |
|                     | 1484A | 4  | E1 | 7500  | 2286.0 | 1200.0 | 545.5 | .053 | 1.35 | .495  | 12.57 | 330  | 1468  | 5.00  | 127.00 |
|                     | 1485A | 8  | E1 | 7500  | 2286.0 | 2002.5 | 910.2 | .053 | 1.35 | .597  | 15.16 | 616  | 2740  | 6.00  | 152.40 |
|                     | 1486A | 12 | E1 | 5000  | 1524.0 | 1965.0 | 893.2 | .064 | 1.63 | .749  | 19.02 | 902  | 4013  | 7.50  | 190.50 |
|                     | 3050A | 16 | E1 | Bulk  | Bulk   | —      | —     | .064 | 1.63 | .838  | 21.29 | 1187 | 5281  | 8.50  | 215.90 |
|                     | 1489A | 24 | E1 | 1250  | 381.0  | 923.8  | 419.9 | .074 | 1.88 | 1.047 | 26.59 | 1758 | 7821  | 10.50 | 266.70 |
|                     | 1490A | 36 | E1 | 1250  | 381.0  | 1313.8 | 597.2 | .074 | 1.88 | 1.197 | 30.40 | 2615 | 11633 | 11.75 | 298.45 |
|                     | 3056A | 50 | E1 | Bulk  | Bulk   | —      | —     | .088 | 2.24 | 1.550 | 39.37 | 3615 | 16082 | 15.50 | 393.70 |



Rip Cord

Communication Wire

#### Individually Shielded + Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket (See chart for options)

|                     |       |    |    |      |        |        |       |      |      |       |       |      |       |       |        |
|---------------------|-------|----|----|------|--------|--------|-------|------|------|-------|-------|------|-------|-------|--------|
| NEC: PLTC, ITC, CMG | 1492A | 2  | E1 | 7500 | 2286.0 | 885.0  | 402.3 | .053 | 1.35 | .450  | 11.43 | 232  | 1032  | 4.50  | 114.30 |
| CEC: CMG FT4        |       |    |    |      |        |        |       |      |      |       |       |      |       |       |        |
|                     | 1493A | 4  | E1 | 7500 | 2286.0 | 1402.5 | 637.5 | .055 | 1.40 | .516  | 13.11 | 420  | 1868  | 5.00  | 127.00 |
|                     | 1494A | 8  | E1 | 5000 | 1524.0 | 1645.0 | 747.7 | .066 | 1.68 | .677  | 17.20 | 795  | 3537  | 7.00  | 177.80 |
|                     | 1495A | 12 | E1 | 2500 | 762.0  | 1180.0 | 536.4 | .066 | 1.68 | .816  | 20.73 | 1170 | 5205  | 8.25  | 209.55 |
|                     | 3051A | 16 | E1 | Bulk | Bulk   | —      | —     | .074 | 1.88 | .936  | 23.77 | 1546 | 6878  | 10.00 | 254.00 |
|                     | 1498A | 24 | E1 | 1250 | 381.0  | 1111.3 | 505.1 | .074 | 1.88 | 1.149 | 29.18 | 2296 | 10214 | 11.50 | 292.10 |
|                     | 1499A | 36 | E1 | 1250 | 381.0  | 1622.5 | 737.5 | .084 | 2.13 | 1.334 | 33.88 | 3422 | 15223 | 13.50 | 342.90 |
|                     | 3057A | 50 | E1 | Bulk | Bulk   | —      | —     | .088 | 2.24 | 1.600 | 40.64 | 4735 | 21064 | 16.00 | 406.40 |

F-R = Flame-retardant

E1, E2 = Refer to Industrial Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options\*\*

| To Specify:                | Bare | Tinned | Insulation/Jacket  |
|----------------------------|------|--------|--------------------|
| 1234 A                     | A    | B      | PVC/PVC            |
| Start with Part No.        | C    | D      | XLPE/PVC           |
| Add or replace letter code | K    | L      | TPE/TPE            |
|                            | Q    | R      | XLPE/CPE           |
|                            | S    | T      | XLPE/Haloarrest® I |

\*\*For 1000 and 3000 Series cables only.

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Belden Industrial Systems Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

1-800-527-0010

## Instrumentation Cable

### 300V Power-Limited Tray Cables

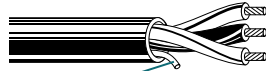
| Description | Part No. | No. of Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |               |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 16 AWG Triads Stranded (19x29) Tinned Copper • Twisted Triads

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|      |   |    |        |         |      |      |      |     |      |      |    |     |      |       |
|------|---|----|--------|---------|------|------|------|-----|------|------|----|-----|------|-------|
| 9494 | 1 | E1 | U-500  | U-152.4 | 25.0 | 11.4 | .037 | .94 | .268 | 6.81 | 91 | 405 | 2.75 | 69.85 |
|      |   |    | U-1000 | U-304.8 | 50.0 | 22.7 |      |     |      |      |    |     |      |       |



Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|      |   |    |        |         |      |      |      |     |      |      |     |     |      |       |
|------|---|----|--------|---------|------|------|------|-----|------|------|-----|-----|------|-------|
| 9366 | 1 | E1 | U-500  | U-152.4 | 29.0 | 13.2 | .037 | .94 | .270 | 6.86 | 116 | 516 | 2.75 | 69.85 |
|      |   |    | U-1000 | U-304.8 | 58.0 | 26.4 |      |     |      |      |     |     |      |       |



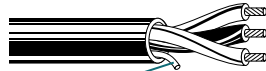
Rip Cord

#### 16 AWG Triads Stranded (7x24) Bare Copper • Twisted Triads

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket (See chart below for other options)

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|       |   |    |      |        |       |      |      |     |      |      |     |     |      |       |
|-------|---|----|------|--------|-------|------|------|-----|------|------|-----|-----|------|-------|
| 1034A | 1 | E1 | 1000 | 304.8  | 51.0  | 23.2 | .037 | .94 | .268 | 6.81 | 107 | 476 | 2.75 | 69.85 |
|       |   |    | 4000 | 1219.2 | 204.0 | 92.7 |      |     |      |      |     |     |      |       |



Rip Cord

##### Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket (See chart below for other options)

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|       |   |    |       |        |       |       |      |     |      |      |     |     |      |       |
|-------|---|----|-------|--------|-------|-------|------|-----|------|------|-----|-----|------|-------|
| 1031A | 1 | E1 | 1000  | 304.8  | 58.0  | 26.4  | .037 | .94 | .271 | 6.88 | 130 | 578 | 2.75 | 69.85 |
|       |   |    | 10000 | 3048.0 | 600.0 | 272.7 |      |     |      |      |     |     |      |       |



Rip Cord

Communication Wire

##### Individually Shielded + Overall 100% Beldfoil Shield • F-R PVC Insulation • F-R PVC Jacket (See chart for options)

NEC: PLTC, ITC, CMG  
CEC: CMG FT4

|       |    |    |      |      |   |   |      |      |       |       |      |       |       |        |
|-------|----|----|------|------|---|---|------|------|-------|-------|------|-------|-------|--------|
| 3045A | 2  | E1 | Bulk | Bulk | — | — | .053 | 1.35 | .491  | 12.47 | 304  | 1352  | 5.00  | 127.00 |
| 3047A | 4  | E1 | Bulk | Bulk | — | — | .053 | 1.35 | .569  | 14.45 | 563  | 2505  | 6.00  | 152.40 |
| 3049A | 8  | E1 | Bulk | Bulk | — | — | .064 | 1.63 | .764  | 19.41 | 1081 | 4809  | 8.00  | 203.20 |
| 3069A | 12 | E1 | Bulk | Bulk | — | — | .074 | 1.88 | .998  | 25.35 | 1500 | 6673  | 10.00 | 254.00 |
| 3053A | 16 | E1 | Bulk | Bulk | — | — | .074 | 1.88 | 1.142 | 29.01 | 2117 | 9418  | 11.50 | 292.10 |
| 3055A | 24 | E1 | Bulk | Bulk | — | — | .084 | 2.13 | 1.320 | 33.53 | 3153 | 14026 | 13.25 | 336.55 |



Rip Cord

Communication Wire

F-R = Flame-retardant

E1 = Refer to Industrial Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options\*\*

##### To Specify:

1234 A

Start with Part No.

Add or replace letter code

| Bare | Tinned | Insulation/Jacket  |
|------|--------|--------------------|
| A    | B      | PVC/PVC            |
| C    | D      | XLPE/PVC           |
| K    | L      | TPE/TPE            |
| Q    | R      | XLPE/CPE           |
| S    | T      | XLPE/Haloarrest® I |

\*\*For 1000 and 3000 Series cables only.



## Instrumentation Cable

### 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs/Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |                     |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 14 AWG Pairs Stranded (42x30) Tinned Copper • Twisted Pairs

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |       |         |      |      |      |      |      |      |     |     |      |       |
|---------------------|------|---|----|-------|---------|------|------|------|------|------|------|-----|-----|------|-------|
| NEC: PLTC, ITC, CMG | 9411 | 1 | E2 | U-500 | U-152.4 | 28.5 | 13.0 | .042 | 1.07 | .322 | 8.18 | 124 | 552 | 3.25 | 82.55 |
| CEC: CMG FT4        |      |   |    | 1000  | 304.8   | 60.0 | 27.3 |      |      |      |      |     |     |      |       |



Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |       |         |      |      |      |      |      |      |     |     |      |       |
|---------------------|------|---|----|-------|---------|------|------|------|------|------|------|-----|-----|------|-------|
| NEC: PLTC, ITC, CMG | 9314 | 1 | E2 | U-500 | U-152.4 | 35.5 | 16.1 | .042 | 1.07 | .324 | 8.23 | 140 | 623 | 3.25 | 82.55 |
| CEC: CMG FT4        |      |   |    | 1000  | 304.8   | 71.0 | 32.3 |      |      |      |      |     |     |      |       |



Rip Cord

#### 14 AWG Triads Stranded (42x30) Tinned Copper • Twisted Triads

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |      |       |      |      |      |      |      |      |     |     |      |       |
|---------------------|------|---|----|------|-------|------|------|------|------|------|------|-----|-----|------|-------|
| NEC: PLTC, ITC, CMG | 9495 | 1 | E1 | 500  | 152.4 | 45.5 | 20.7 | .042 | 1.07 | .340 | 8.64 | 186 | 827 | 3.50 | 88.90 |
| CEC: CMG FT4        |      |   |    | 1000 | 304.8 | 92.0 | 41.8 |      |      |      |      |     |     |      |       |



Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |      |       |      |      |      |      |      |      |     |     |      |       |
|---------------------|------|---|----|------|-------|------|------|------|------|------|------|-----|-----|------|-------|
| NEC: PLTC, ITC, CMG | 9367 | 1 | E1 | 500  | 152.4 | 43.0 | 19.5 | .042 | 1.07 | .343 | 8.71 | 188 | 836 | 3.50 | 88.90 |
| CEC: CMG FT4        |      |   |    | 1000 | 304.8 | 88.0 | 40.0 |      |      |      |      |     |     |      |       |



Rip Cord

F-R = Flame-retardant

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

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## Instrumentation Cable

### 300V Power-Limited Tray Cables

| Description | Part No. | No. of Pairs/Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |                     |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 12 AWG Pairs Stranded (65x30) Tinned Copper • Twisted Pairs

##### Unshielded • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |        |         |      |      |      |      |      |      |     |     |      |        |
|---------------------|------|---|----|--------|---------|------|------|------|------|------|------|-----|-----|------|--------|
| NEC: PLTC, ITC, CMG | 9412 | 1 | E2 | 500    | 152.4   | 40.0 | 18.2 | .042 | 1.07 | .370 | 9.40 | 197 | 876 | 4.25 | 107.95 |
| CEC: CMG FT4        |      |   |    | U-1000 | U-304.8 | 80.0 | 36.4 |      |      |      |      |     |     |      |        |



Rip Cord

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket

|                     |      |   |    |      |       |      |      |      |      |      |      |     |      |      |        |
|---------------------|------|---|----|------|-------|------|------|------|------|------|------|-----|------|------|--------|
| NEC: PLTC, ITC, CMG | 9312 | 1 | E2 | 500  | 152.4 | 49.0 | 22.3 | .042 | 1.07 | .373 | 9.47 | 225 | 1001 | 4.25 | 107.95 |
| CEC: CMG FT4        |      |   |    | 1000 | 304.8 | 96.0 | 43.6 |      |      |      |      |     |      |      |        |



Rip Cord

#### 12 AWG Triads Stranded (7x20) Bare Copper • Twisted Triads

##### Overall 100% Beldfoil® Shield • F-R PVC Insulation • F-R PVC Jacket (See chart below for other options)

|                     |       |   |    |      |      |   |   |      |      |      |       |     |      |      |       |
|---------------------|-------|---|----|------|------|---|---|------|------|------|-------|-----|------|------|-------|
| NEC: PLTC, ITC, CMG | 3102A | 1 | E1 | Bulk | Bulk | — | — | .053 | 1.35 | .416 | 10.57 | 315 | 1401 | 3.50 | 88.90 |
| CEC: CMG FT4        |       |   |    |      |      |   |   |      |      |      |       |     |      |      |       |



Rip Cord

F-R = Flame-retardant

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options\*\*

| To Specify:                | Bare     | Tinned   | Insulation/Jacket  |
|----------------------------|----------|----------|--------------------|
| <b>1234 A</b>              | <b>A</b> | <b>B</b> | PVC/PVC            |
| Start with Part No.        | <b>C</b> | <b>D</b> | XLPE/PVC           |
| Add or replace letter code | <b>K</b> | <b>L</b> | TPE/TPE            |
|                            | <b>Q</b> | <b>R</b> | XLPE/CPE           |
|                            | <b>S</b> | <b>T</b> | XLPE/Haloarrest® I |

\*\*For 1000 and 3000 Series cables only.



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## Instrumentation Cable

### Thermocouple Extension Cables and Thermocouple Wire — Overview

#### Construction Thermocouple Extension Cable

Conductor material determined by the thermocouple extension wire type. FEP or PVC insulated with FEP or PVC jacket. Nylon rip cord included in all thermocouple extension cables except high-temperature FEP jacketed cables. Communication wire included on all multi-pair, non-FEP constructions — 22 AWG (7x30) bare copper orange PVC insulation.

NOTE: The temperature ranges in Table A are applicable only to the thermocouple conductors and not to the cable. The cable must never be exposed to temperatures higher than the maximum temperature ratings shown in Table B.

**Table B:**  
**Other Insulation/Jacket Options**

| UL Listed for PLTC |                  |
|--------------------|------------------|
| Insulation/Jacket  | Max. Temp Rating |
| XLPE/PVC           | 90°C             |
| XLPE/CPE           | 90°C             |
| PVC/PVC            | 105°C            |
| PVC/CPE            | 105°C            |
| PE/PVC             | 75°C             |
| FPE/PVC            | 75°C             |
| TPE/TPE            | 105°C            |
| XLPE/Haloarrest® I | 90°C             |
| FEP/FEP            | 200°C            |

#### Application

##### Unshielded

Parallel non-shielded extension wire may be utilized in low noise environments when recommended by the instrument manufacturer.

##### Overall Shield

Recommended, except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

##### Individually Shielded

Individually shielded pairs are recommended for use in applications where optimum noise rejection is required.

#### PVC Insulated, PVC Jacketed Cable Specifications

- UL Subject 13
- UL 1581 Vertical Tray Flame Test comparable to IEEE 383 (70,000 BTU) Flame Test
- ANSI/MC 96.1–1982
- NEC CMG
- NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.

- NEC Type ITC Listed, which is approved for cable tray use, raceways hazardous locations according to Articles 501, 502, 503 and 504; or as aerial on a cable messenger, and under raised floors in control rooms and rack rooms where arranged to prevent damage to the cable. Usages are allowed based on qualified persons servicing all installations.
- PVC/PVC constructions are CEC CMG FT4 and IEEE 1202 rated.
- UL 1277 TC versions approved for use in Class 1 trays available as special.

#### Shielded Twisted Pair (FEP insulated, FEP jacketed cable specifications)

- UL Subject 13
- UL 910 Steiner Tunnel Flame Test comparable to FT6 Flame Test
- ANSI/MC 96.1–1982
- NEC Type CL3P/PLTC Listed, which is approved for use in ducts, plenums and other space used for environmental air.
- UL 1277 TC versions approved for use in Class 1 trays available as special.

#### Thermocouple Wire

Conductor material determined by the thermocouple type. FEP insulated and jacketed flat constructions.

FEP thermocouple wire is impervious to chemical attack and is flame retardant.

**Table A: Thermocouple Identification and Limits of Error — Reference Junction 0°C\***

| ANSI Symbol | Temperature Range (°C) | Limits of Error Standard (°C) | Jacket Color | Insulation Color Code |                | Conductor Identification |                            |
|-------------|------------------------|-------------------------------|--------------|-----------------------|----------------|--------------------------|----------------------------|
|             |                        |                               |              | Positive ( + )        | Negative ( - ) | Positive ( + )           | Negative ( - )             |
| E           | 0 to 340<br>340 to 540 | ±1.7°C<br>±.50%               | Brown        | Purple                | Red            | Chromel®<br>Non-magnetic | Constantan<br>Silver Color |
| J           | 0 to 293<br>293 to 480 | ±2.2°C<br>±.75%               | Brown        | White                 | Red            | Iron<br>Magnetic         | Constantan<br>Non-magnetic |
| K           | 0 to 293<br>293 to 980 | ±2.2°C<br>±.75%               | Brown        | Yellow                | Red            | Chromel<br>Non-magnetic  | Alumel®<br>Magnetic        |
| T           | 0 to 133<br>133 to 260 | ±1.0°C<br>±.75%               | Brown        | Blue                  | Red            | Copper<br>Copper Color   | Constantan<br>Non-magnetic |
| EX          | 0 to 200               | ±1.7°C                        | Purple       | Purple                | Red            | Chromel                  | Constantan                 |
| JX          | 0 to 200               | ±2.2°C                        | Black        | White                 | Red            | Iron                     | Constantan                 |
| KX          | 0 to 200               | ±2.2°C                        | Yellow       | Yellow                | Red            | Chromel                  | Alumel                     |
| TX          | 0 to 100               | ±1.0°C                        | Blue         | Blue                  | Red            | Copper                   | Constantan                 |

Limits of error per ANSI MC96.1-1982. Limits shown do not include system or installation error. Percentages refer to the temperature being measured.

\*The Temperature Range and Limits of Error are for standard grade thermocouples. Reference ANSI MC96.1-1982 for special grade thermocouples.

The Temperature Ranges for type E, J, K and T thermocouple wires listed above pertain to 20 AWG wire.

Additional constructions available upon request.

Chromel and Alumel are Hoskins Manufacturing Company trademarks.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1 or 1-800-BELDEN-3.



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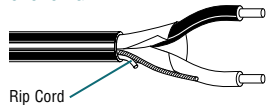
**1-800-527-0010**

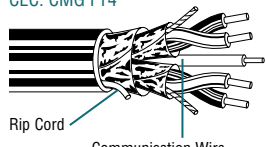
## Instrumentation Cable

### Thermocouple Extension Cables

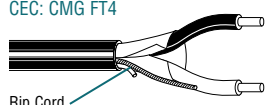
| Description | Part No. | ANSI Type | No. of Pairs | Color Code | Jacket Color | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|-------------|----------|-----------|--------------|------------|--------------|------------------|---|----------------------|----|----------------------|----|------------|----|
|             |          |           |              |            |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

**20 AWG Pairs** Solid Conductors • (See chart on page 15.52 for conductor specifications by ANSI Type)

| Overall 100% Beldfoil® Shield • PVC Insulation • PVC Jacket                                                                            |       |    |    |             |        |      |        |       |       |      |     |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------|-------|----|----|-------------|--------|------|--------|-------|-------|------|-----|------|-------|
| 300V 105°C<br>NEC: PLTC, ITC, CMG<br>CEC: CMG FT4<br> | 3111A | JX | 1  | White, Red  | Black  | 5000 | 1524.0 | 115.0 | 52.3  | .016 | .41 | .206 | 5.23  |
|                                                                                                                                        | 1102A | JX | 4  | White, Red  | Black  | 5000 | 1524.0 | 410.0 | 186.4 | .016 | .41 | .365 | 9.27  |
|                                                                                                                                        | 1001A | JX | 8  | White, Red  | Black  | 5000 | 1524.0 | 680.0 | 309.1 | .016 | .41 | .461 | 11.70 |
|                                                                                                                                        | 1002A | JX | 12 | White, Red  | Black  | 5000 | 1524.0 | 895.0 | 406.8 | .016 | .41 | .551 | 13.99 |
|                                                                                                                                        | 3112A | KX | 1  | Yellow, Red | Yellow | 5000 | 1524.0 | 120.0 | 54.5  | .016 | .41 | .206 | 5.23  |
|                                                                                                                                        | 1103A | KX | 8  | Yellow, Red | Yellow | 5000 | 1524.0 | 675.0 | 306.8 | .016 | .41 | .461 | 11.70 |
|                                                                                                                                        | 3113A | TX | 1  | Blue, Red   | Blue   | 5000 | 1524.0 | 115.0 | 52.3  | .016 | .41 | .206 | 5.23  |

| Individually Shielded + Overall 100% Beldfoil® Shield • PVC Insulation • PVC Jacket                                                    |       |    |    |             |        |      |        |        |       |      |     |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------|-------|----|----|-------------|--------|------|--------|--------|-------|------|-----|------|-------|
| 300V 105°C<br>NEC: PLTC, ITC, CMG<br>CEC: CMG FT4<br> | 1112A | EX | 4  | Purple, Red | Purple | 5000 | 1524.0 | 475.0  | 215.9 | .016 | .41 | .383 | 9.73  |
|                                                                                                                                        | 3115A | JX | 2  | White, Red  | Black  | 5000 | 1524.0 | 315.0  | 143.2 | .016 | .41 | .332 | 8.43  |
|                                                                                                                                        | 1006A | JX | 4  | White, Red  | Black  | 5000 | 1524.0 | 480.0  | 218.2 | .016 | .41 | .383 | 9.73  |
|                                                                                                                                        | 1007A | JX | 8  | White, Red  | Black  | 5000 | 1524.0 | 830.0  | 377.3 | .016 | .41 | .503 | 12.78 |
|                                                                                                                                        | 1008A | JX | 12 | White, Red  | Black  | 5000 | 1524.0 | 1155.0 | 525.0 | .016 | .41 | .603 | 15.32 |
|                                                                                                                                        | 1009A | JX | 16 | White, Red  | Black  | 5000 | 1524.0 | 1490.0 | 677.3 | .016 | .41 | .692 | 17.58 |
|                                                                                                                                        | 1012A | KX | 4  | Yellow, Red | Yellow | 5000 | 1524.0 | 530.0  | 240.9 | .016 | .41 | .383 | 9.73  |
|                                                                                                                                        | 1013A | KX | 8  | Yellow, Red | Yellow | 5000 | 1524.0 | 825.0  | 375.0 | .016 | .41 | .503 | 12.78 |
|                                                                                                                                        | 1014A | KX | 12 | Yellow, Red | Yellow | 5000 | 1524.0 | 1195.0 | 543.2 | .016 | .41 | .603 | 15.32 |
|                                                                                                                                        | 1015A | KX | 16 | Yellow, Red | Yellow | 5000 | 1524.0 | 1480.0 | 672.7 | .016 | .41 | .692 | 12.58 |
|                                                                                                                                        | 1016A | KX | 24 | Yellow, Red | Yellow | 4000 | 1219.2 | 1716.0 | 780.0 | .016 | .41 | .850 | 21.59 |
|                                                                                                                                        | 1017A | KX | 36 | Yellow, Red | Yellow | 3000 | 914.4  | 1854.0 | 842.7 | .016 | .41 | .989 | 25.12 |
|                                                                                                                                        | 1025A | TX | 12 | Blue, Red   | Blue   | 4000 | 1219.2 | 996.0  | 452.7 | .016 | .41 | .603 | 15.32 |

**16 AWG Pairs** Solid Conductors • (See chart on page 15.52 for conductor specifications by ANSI Type)

| Overall 100% Beldfoil® Shield • PVC Insulation • PVC Jacket                                                                              |       |    |   |             |        |       |        |       |       |      |     |      |      |
|------------------------------------------------------------------------------------------------------------------------------------------|-------|----|---|-------------|--------|-------|--------|-------|-------|------|-----|------|------|
| 300V 105°C<br>NEC: PLTC, ITC, CMG<br>CEC: CMG FT4<br> | 1101A | EX | 1 | Purple, Red | Purple | 10000 | 3048.0 | 450.0 | 204.5 | .017 | .43 | .248 | 6.30 |
|                                                                                                                                          | 1000A | JX | 1 | White, Red  | Black  | 1000  | 304.8  | 42.0  | 19.1  | .017 | .43 | .248 | 6.30 |
|                                                                                                                                          |       |    |   |             |        | 10000 | 3048.0 | 450.0 | 204.5 |      |     |      |      |
|                                                                                                                                          | 1018A | KX | 1 | Yellow, Red | Yellow | 1000  | 304.8  | 42.0  | 19.1  | .017 | .43 | .248 | 6.30 |
|                                                                                                                                          |       |    |   |             |        | 10000 | 3048.0 | 450.0 | 204.5 |      |     |      |      |
|                                                                                                                                          | 1023A | TX | 1 | Blue, Red   | Blue   | 10000 | 3048.0 | 450.0 | 204.5 | .017 | .43 | .248 | 6.30 |

Multiple pair cables have each pair numbered for ease of identification.



## Instrumentation Cable

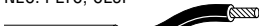
### High-Temperature Thermocouple Extension Cables and Thermocouple Wire

| Description | Part No. | ANSI Type | No. of Pairs/Cond. | Color Code | Jacket Color | Standard Lengths |   | Standard Unit Weight |    | Insulation Thickness |    | Nominal OD |    |
|-------------|----------|-----------|--------------------|------------|--------------|------------------|---|----------------------|----|----------------------|----|------------|----|
|             |          |           |                    |            |              | ft.              | m | Lbs.                 | kg | Inch                 | mm | Inch       | mm |

#### High-Temp Extension Cable • 20 AWG Solid Conductors • (See chart on page 15.52 for conductor specifications by ANSI Type)

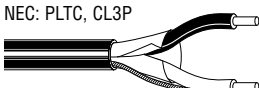
| Plenum • Unshielded • FEP Insulation • FEP Jacket |                                                                                  |       |    |     |             |        |      |       |      |     |      |     |           |           |
|---------------------------------------------------|----------------------------------------------------------------------------------|-------|----|-----|-------------|--------|------|-------|------|-----|------|-----|-----------|-----------|
| 300V 200°C<br>NEC: PLTC, CL3P                     |  | 83932 | KX | 2/c | Yellow, Red | Yellow | 500  | 152.4 | 7.0  | 3.2 | .010 | .25 | .076      | 1.93      |
|                                                   |                                                                                  |       |    |     |             |        | 1000 | 304.8 | 14.0 | 6.4 |      |     | x<br>.128 | x<br>3.25 |
|                                                   |                                                                                  | 83934 | TX | 2/c | Blue, Red   | Blue   | 1000 | 304.8 | 15.0 | 6.8 | .010 | .25 | .076      | 1.93      |
|                                                   |                                                                                  |       |    |     |             |        |      |       |      |     |      |     | x<br>.128 | x<br>3.25 |

#### High-Temp Extension Cable • 20 AWG Stranded (7x28) • (See chart on page 15.52 for conductor specifications by ANSI Type)

| Plenum • Unshielded • FEP Insulation • FEP Jacket |                                                                                  |       |    |     |            |       |      |       |      |     |      |     |      |      |
|---------------------------------------------------|----------------------------------------------------------------------------------|-------|----|-----|------------|-------|------|-------|------|-----|------|-----|------|------|
| 300V 200°C<br>NEC: PLTC, CL3P                     |  | 83930 | JX | 2/c | White, Red | Black | 500  | 152.4 | 7.5  | 3.4 | .010 | .25 | .082 | 2.08 |
|                                                   |                                                                                  |       |    |     |            |       | 1000 | 304.8 | 15.0 | 6.8 |      |     | x    | x    |
|                                                   |                                                                                  |       |    |     |            |       |      |       |      |     |      |     |      | .140 |

| Plenum • Overall 100% Beldfoil® Shield • FEP Insulation • FEP Jacket                                                       |              |    |       |             |        |             |                |             |            |      |     |      |      |
|----------------------------------------------------------------------------------------------------------------------------|--------------|----|-------|-------------|--------|-------------|----------------|-------------|------------|------|-----|------|------|
| <div>300V 200°C<br/>NEC: PLTC, CL3P</div>  | <b>83955</b> | EX | 1 pr. | Purple, Red | Purple | 500<br>1000 | 152.4<br>304.8 | 9.0<br>18.0 | 4.1<br>8.2 | .010 | .25 | .145 | 3.68 |
|                                                                                                                            | <b>83950</b> | JX | 1 pr. | White, Red  | Black  | 500<br>1000 | 152.4<br>304.8 | 9.5<br>18.0 | 4.3<br>8.2 | .010 | .25 | .145 | 3.68 |
|                                                                                                                            | <b>83952</b> | KX | 1 pr. | Yellow, Red | Yellow | 500<br>1000 | 152.4<br>304.8 | 9.5<br>18.0 | 4.3<br>8.2 | .010 | .25 | .145 | 3.68 |
|                                                                                                                            | <b>83954</b> | TX | 1 pr. | Blue, Red   | Blue   | 500<br>1000 | 152.4<br>304.8 | 9.0<br>18.0 | 4.1<br>8.6 | .010 | .25 | .145 | 3.68 |

#### High-Temp Extension Cable • 16 AWG Pairs Solid Conductors • (See chart on page 15.52 for conductor specifications by ANSI Type)

| Plenum • Overall 100% Beldfoil Shield • FEP Insulation • FEP Jacket |                                                                                    |       |    |   |             |        |      |        |       |      |      |     |      |      |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|----|---|-------------|--------|------|--------|-------|------|------|-----|------|------|
| 300V 200°C<br>NEC: PLTC, CL3P                                       |  | 1114A | EX | 1 | Purple, Red | Purple | 5000 | 1524.0 | 160.0 | 72.7 | .010 | .25 | .172 | 4.37 |
|                                                                     |                                                                                    | 1115A | JX | 1 | White, Red  | Black  | 5000 | 1524.0 | 155.0 | 70.5 | .010 | .25 | .172 | 4.37 |
|                                                                     |                                                                                    | 1116A | KX | 1 | Yellow, Red | Yellow | 5000 | 1524.0 | 160.0 | 72.7 | .010 | .25 | .171 | 4.34 |
|                                                                     |                                                                                    | 1117A | TX | 1 | Blue, Red   | Blue   | 5000 | 1524.0 | 160.0 | 72.7 | .010 | .25 | .172 | 4.37 |

#### High-Temp Extension Cable • 16 AWG Pairs Stranded (7x24) • (See chart on page 15.52 for conductor specifications by ANSI Type)

| Plenum • Overall 100% Beldfoil Shield • FEP Insulation • FEP Jacket |                                                                                    |       |    |   |             |        |      |       |      |      |      |     |      |      |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|----|---|-------------|--------|------|-------|------|------|------|-----|------|------|
| 300V 200°C<br>NEC: PLTC, CL3P                                       |  | 83951 | JX | 1 | White, Red  | Black  | 500  | 152.4 | 17.5 | 8.0  | .010 | .25 | .189 | 4.80 |
|                                                                     |                                                                                    |       |    |   |             |        | 1000 | 304.8 | 37.0 | 16.8 |      |     |      |      |
|                                                                     |                                                                                    | 83953 | KX | 1 | Yellow, Red | Yellow | 500  | 152.4 | 18.0 | 8.2  | .010 | .25 | .187 | 4.75 |
|                                                                     |                                                                                    |       |    |   |             |        | 1000 | 304.8 | 34.0 | 15.5 |      |     |      |      |

#### High-Temp Thermocouple Wire • 20 AWG Solid Conductors • (See chart on page 15.52 for conductor specifications by ANSI Type)

| Plenum • Unshielded • FEP Insulation • FEP Jacket                                                                            |              |   |     |             |       |      |       |      |     |      |     |      |      |
|------------------------------------------------------------------------------------------------------------------------------|--------------|---|-----|-------------|-------|------|-------|------|-----|------|-----|------|------|
| <div>300V 200°C<br/>NEC: PLTC, CL3P</div>  | <b>83915</b> | E | 2/c | Purple, Red | Brown | 500  | 152.4 | 8.0  | 3.6 | .010 | .25 | .076 | 1.93 |
|                                                                                                                              |              |   |     |             |       | 1000 | 304.8 | 15.0 | 6.8 |      |     | x    | x    |
|                                                                                                                              |              |   |     |             |       |      |       |      |     |      |     | .128 | 3.25 |
|                                                                                                                              | <b>83900</b> | J | 2/c | White, Red  | Brown | 100  | 30.5  | 2.1  | 1.0 | .010 | .25 | .076 | 1.93 |
|                                                                                                                              |              |   |     |             |       | 500  | 152.4 | 7.5  | 3.4 |      |     | x    | x    |
|                                                                                                                              |              |   |     |             |       | 1000 | 304.8 | 14.0 | 6.4 |      |     | .128 | 3.25 |
|                                                                                                                              | <b>83905</b> | K | 2/c | Yellow, Red | Brown | 100  | 30.5  | 2.1  | 1.0 | .010 | .25 | .076 | 1.93 |
|                                                                                                                              |              |   |     |             |       | 500  | 152.4 | 7.5  | 3.4 |      |     | x    | x    |
|                                                                                                                              |              |   |     |             |       | 1000 | 304.8 | 14.0 | 6.4 |      |     | .128 | 3.25 |
|                                                                                                                              | <b>83910</b> | T | 2/c | Blue, Red   | Brown | 100  | 30.5  | 2.1  | 1.0 | .010 | .25 | .076 | 1.93 |
|                                                                                                                              |              |   |     |             |       | 500  | 152.4 | 7.5  | 3.4 |      |     | x    | x    |
|                                                                                                                              |              |   |     |             |       | 1000 | 304.8 | 14.0 | 6.4 |      |     | .128 | 3.25 |

FEP = Fluorinated Ethylene-propylene

Multiple pair cables have each pair numbered for ease of identification.



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1-800-527-0010

# Instrumentation Cable

## 600V Tray Cables – Overview

### Construction

Soft annealed bare or tinned copper conductors. PVC insulated with a nylon overcoat, 90°C PVC Jacket, TFN, TFFN or THHN style singles. Nylon rip cord included in all PVC-Nylon/PVC instrumentation cables.

### Tray Cable Construction Options

| UL Listed for MC and TC                      |                  |      |                                          |
|----------------------------------------------|------------------|------|------------------------------------------|
| Insulation/Jacket                            | Max. Temp Rating |      | Flame Tests                              |
|                                              | Wet              | Dry  |                                          |
| PVC—Nylon/PVC (THHN or THWN) 14 AWG & larger | 75°C             | 90°C | UL 1581 FT4/IEEE 1202                    |
| PVC—Nylon/PVC (TFN or TFFN) 16 & 18 AWG      | NA               | 90°C | UL 1581 FT4/IEEE 1202                    |
| XLPE (XHHW-2)/PVC or CPE 14 AWG & larger     | 90°C             | 90°C | UL 1581 FT4/IEEE 1202 VW-1 rated singles |
| XLPE (RFH-2)/PVC or CPE 16 & 18 AWG          | 75°C             | 75°C | UL 1581 FT4/IEEE 1202 VW-1 rated singles |
| FRPO/PVC 18 AWG & larger                     | —                | 75°C | UL 1581                                  |
| TPE/TPE                                      | 75°C             | 90°C | UL 1581                                  |
| FRPO/PVC                                     | 75°C             | 90°C | UL 1581                                  |
| XLPE/Haloarrest® I (XHHW-2) 14 AWG & larger  | 90°C             | 90°C | UL 1581 VW-1 rated singles               |
| XLPE/Haloarrest I 16 & 18 AWG (RFH-2)        | 75°C             | 75°C | UL 1581                                  |
| FEP/PVC                                      | 90°C             | 90°C | UL 1581                                  |
| XLPE/Hypalon® (XHHW-2) 14 AWG & larger       | 90°C             | 90°C | UL 1581 VW-1 rated singles               |
| XLPE/Hypalon (RFH-2) 16 & 18 AWG             | 75°C             | 75°C | UL 1581 VW-1 rated singles               |

### Voltage Rating

600 Volts

### Temperature Rating

See table above.

### Application

These cables are suitable for installation in wet or dry locations. Cable jackets are resistant to sunlight, moisture and vapor penetration. The cables can be used in raceways, and (supported by messenger wire), outdoor applications and direct burial applications.

### Unshielded

Twisted non-shielded instrument pairs provide a minimal OD allowing greater tray and conduit fill. Non-shielded instrument pairs may be utilized when recommended by the instrument manufacturer and used in a metallic conduit.

### Overall Shield

Recommended for use in instrumentation applications where signals are transmitted in excess of 100 millivolts except in areas where high voltage and current sources creates excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

### Individually Shielded and Overall Shielded

Individually shielded pairs or triads with an overall shield are recommended for use in instrumentation applications where optimum noise rejection is required. Individual pair/triad shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection.

### Specifications

- UL Subject 1277
- UL 1581 Vertical Tray Flame Test comparable to IEEE 383 (70,000 BTU/hr.) Flame Test
- NEC Type TC Listed, which is approved for cable tray use in Class 1, Division 2 areas, per NEC Articles 340, 318 and 501 and for Class 1 circuits as permitted in Article 725
- Bare Copper Constructions are NEC Type NPLF Listed, which is approved for use in Non Power Limited Fire Protective Signaling circuits, per NEC Article 760
- PVC-Nylon/PVC, XLPE/PVC and XLPE/CPE constructed cables meet IEEE 1202/FT4 (70,000 BTU) Flame Tests

### MC Cable Ratings Optional

Customize any 600V TC instrumentation cable, with armor and a full-sized ground. See chart below to specify.

| To Specify MC Rated Cable |            |                                               |                                          |
|---------------------------|------------|-----------------------------------------------|------------------------------------------|
| <b>1</b>                  | <b>2</b>   | <b>3456</b>                                   | <b>A</b>                                 |
| Overall Jacket Type       | Armor Type | Core 4-digit Part No. 600V TC Instrumentation | Conductor, Insulation, Inner Jacket Type |

### Overall Jacket Type    Armor Type

| Code     | Material     | Code     | Material           |
|----------|--------------|----------|--------------------|
| <b>1</b> | PVC          | <b>2</b> | Aluminum Interlock |
| <b>3</b> | CPE          | <b>3</b> | Steel Interlock    |
| <b>4</b> | TPE          |          |                    |
| <b>5</b> | HDPE         |          |                    |
| <b>6</b> | Oil Res II   |          |                    |
| <b>7</b> | Haloarrest I |          |                    |

### Conductor, Insulation and Jacket Options\*\*

| Bare     | Tinned   | Insulation/Jacket    |
|----------|----------|----------------------|
| <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| <b>C</b> | <b>D</b> | XLPE/PVC             |
| <b>E</b> | <b>F</b> | FRPO/PVC             |
| <b>G</b> | <b>H</b> | XLPE/TPE             |
| <b>K</b> | <b>L</b> | TPE/TPE              |
| <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
| <b>Q</b> | <b>R</b> | XLPE/CPE             |
| <b>S</b> | <b>T</b> | XLPE/Haloarrest I    |

\*\*For 1000 and 3000 Series cables only.

| To Specify:         |                            |
|---------------------|----------------------------|
| <b>1234</b>         | <b>A</b>                   |
| Start with Part No. | Add or replace letter code |

Hypalon is a DuPont trademark.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1 or 1-800-BELDEN-3.

# Instrumentation Cable

## 600V Tray Cables

| Description | Part No. | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

**18 AWG Pairs** Stranded (19x30) Tinned Copper • Twisted Pairs

### Unshielded • PVC/Nylon Insulation • PVC Jacket

|          |             |   |    |      |       |      |      |      |      |      |      |    |     |      |       |
|----------|-------------|---|----|------|-------|------|------|------|------|------|------|----|-----|------|-------|
| NEC: TC  | <b>9486</b> | 1 | E2 | 1000 | 304.8 | 44.0 | 20.0 | .048 | 1.22 | .275 | 6.99 | 45 | 200 | 2.75 | 69.85 |
| CEC: FT4 |             |   |    |      |       |      |      |      |      |      |      |    |     |      |       |



Rip Cord

### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket

|          |             |   |    |      |       |      |      |      |      |      |      |    |     |      |       |
|----------|-------------|---|----|------|-------|------|------|------|------|------|------|----|-----|------|-------|
| NEC: TC  | <b>9341</b> | 1 | E2 | 500  | 152.4 | 24.0 | 10.9 | .048 | 1.22 | .276 | 7.01 | 67 | 298 | 2.75 | 69.85 |
| CEC: FT4 |             |   |    | 1000 | 304.8 | 46.0 | 20.9 |      |      |      |      |    |     |      |       |

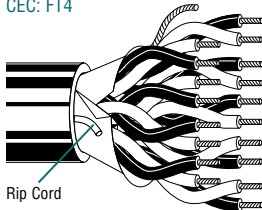


Rip Cord

**18 AWG Pairs** Stranded (7x26) Bare Copper • Twisted Pairs

### Overall 100% Beldfoil Shield • PVC/Nylon Insulation • PVC Jacket (See chart below for other options)

|               |              |    |    |       |        |        |       |      |      |       |       |      |       |       |        |
|---------------|--------------|----|----|-------|--------|--------|-------|------|------|-------|-------|------|-------|-------|--------|
| NEC: TC, NPLF | <b>1120A</b> | 1  | E2 | 10000 | 3048.0 | 450.0  | 204.5 | .048 | 1.22 | .269  | 6.83  | 67   | 298   | 2.75  | 69.85  |
| CEC: FT4      | <b>3088A</b> | 1  | E1 | Bulk  | Bulk   | —      | —     | .048 | 1.22 | .269  | 6.83  | 67   | 298   | 2.75  | 69.85  |
|               | <b>1063A</b> | 2  | E1 | 10000 | 3048.0 | 780.0  | 354.5 | .053 | 1.35 | .417  | 10.59 | 112  | 498   | 4.25  | 107.95 |
|               | <b>1064A</b> | 4  | E1 | 7500  | 2286.0 | 930.0  | 422.7 | .053 | 1.35 | .480  | 12.19 | 202  | 898   | 4.75  | 120.65 |
|               | <b>1065A</b> | 8  | E1 | 7500  | 2286.0 | 1665.0 | 756.8 | .064 | 1.63 | .599  | 15.21 | 381  | 1695  | 6.00  | 152.40 |
|               | <b>1066A</b> | 12 | E1 | 5000  | 1524.0 | 1535.0 | 697.7 | .064 | 1.63 | .719  | 18.26 | 560  | 2491  | 7.25  | 184.15 |
|               | <b>1067A</b> | 16 | E1 | 5000  | 1524.0 | 1920.0 | 872.7 | .064 | 1.63 | .804  | 20.42 | 739  | 3288  | 8.00  | 203.20 |
|               | <b>1068A</b> | 24 | E1 | 2500  | 762.0  | 1502.5 | 683.0 | .084 | 2.13 | 1.032 | 26.21 | 1098 | 4885  | 10.25 | 260.35 |
|               | <b>1087A</b> | 36 | E1 | 1250  | 381.0  | 1042.5 | 473.9 | .084 | 2.13 | 1.174 | 29.82 | 1635 | 7273  | 11.75 | 298.45 |
|               | <b>1088A</b> | 50 | E1 | 1250  | 381.0  | 1437.5 | 653.4 | .084 | 2.13 | 1.375 | 34.93 | 2262 | 10063 | 14.50 | 368.30 |



Rip Cord

### Individually Shielded + Overall 100% Beldfoil Shield • PVC/Nylon Insulation • PVC Jacket (See chart for options)

|               |              |    |    |      |        |        |       |      |      |       |       |      |       |       |        |
|---------------|--------------|----|----|------|--------|--------|-------|------|------|-------|-------|------|-------|-------|--------|
| NEC: TC, NPLF | <b>1048A</b> | 2  | E1 | 7500 | 2286.0 | 630.0  | 286.4 | .048 | 1.22 | .432  | 10.97 | 140  | 623   | 4.00  | 101.60 |
| CEC: FT4      | <b>1049A</b> | 4  | E1 | 7500 | 2286.0 | 1117.5 | 508.0 | .053 | 1.35 | .498  | 12.65 | 258  | 1148  | 5.00  | 127.00 |
|               | <b>1050A</b> | 8  | E1 | 7500 | 2286.0 | 2010.0 | 913.6 | .064 | 1.63 | .663  | 16.84 | 493  | 2193  | 6.50  | 165.10 |
|               | <b>1051A</b> | 12 | E1 | 5000 | 1524.0 | 1960.0 | 890.9 | .064 | 1.63 | .798  | 20.27 | 728  | 3239  | 7.75  | 196.85 |
|               | <b>1052A</b> | 16 | E1 | 2500 | 762.0  | 1350.0 | 613.6 | .084 | 2.13 | .927  | 23.55 | 963  | 4284  | 9.00  | 228.60 |
|               | <b>1053A</b> | 24 | E1 | 2500 | 762.0  | 1837.5 | 835.2 | .084 | 2.13 | 1.135 | 28.83 | 1434 | 6379  | 11.25 | 285.75 |
|               | <b>1054A</b> | 36 | E1 | 1250 | 381.0  | 1307.5 | 594.3 | .084 | 2.13 | 1.299 | 32.99 | 2139 | 9516  | 13.00 | 338.20 |
|               | <b>1038A</b> | 50 | E1 | 1000 | 304.8  | 1272.0 | 578.2 | .084 | 2.13 | 1.527 | 38.79 | 2962 | 13177 | 15.25 | 387.35 |

E1, E2 = Refer to Industrial Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

### Conductor, Insulation and Jacket Options\*\*

| To Specify:                                              |   | Bare | Tinned | Insulation/Jacket    |
|----------------------------------------------------------|---|------|--------|----------------------|
| 1234 A<br>Start with Part No. Add or replace letter code | A | B    |        | PVC-Nylon/PVC        |
|                                                          | C | D    |        | XLPE/PVC             |
|                                                          | E | F    |        | FRPO/PVC             |
|                                                          | G | H    |        | XLPE/TPE             |
|                                                          | K | L    |        | TPE/TPE              |
|                                                          | M | N    |        | PVC-Nylon/Oil Res II |
|                                                          | Q | R    |        | XLPE/CPE             |
|                                                          | S | T    |        | XLPE/Haloarrest® I   |

\*\*For 1000 and 3000 Series cables only.



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**1-800-527-0010**

# Instrumentation Cable

## 600V Tray Cables

| Description | Part No. | No. of Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |               |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 18 AWG Triads Stranded (7x26) Bare Copper • Twisted Triads

| Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket (See chart below for other options) |       |   |    |       |        |       |       |      |      |      |      |    |     |      |       |
|-------------------------------------------------------------------------------------------------------|-------|---|----|-------|--------|-------|-------|------|------|------|------|----|-----|------|-------|
| NEC: TC, NPLF<br>CEC: FT4                                                                             | 1121A | 1 | E2 | 500   | 152.4  | 25.0  | 11.4  | .048 | 1.22 | .282 | 7.16 | 90 | 400 | 2.75 | 69.85 |
|                                                                                                       |       |   |    | 1000  | 304.8  | 50.0  | 22.7  |      |      |      |      |    |     |      |       |
|                                                                                                       |       |   |    | 10000 | 3048.0 | 500.0 | 227.3 |      |      |      |      |    |     |      |       |
|                                                                                                       |       |   |    |       |        |       |       |      |      |      |      |    |     |      |       |



Rip Cord

| Individually Shielded + Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket (See chart for options) |       |    |    |      |        |        |       |      |      |       |       |      |      |       |        |
|-------------------------------------------------------------------------------------------------------------------|-------|----|----|------|--------|--------|-------|------|------|-------|-------|------|------|-------|--------|
| NEC: TC, NPLF<br>CEC: FT4                                                                                         | 3064A | 2  | E1 | Bulk | Bulk   | —      | —     | .048 | 1.22 | .493  | 12.52 | 185  | 823  | 4.75  | 120.65 |
|                                                                                                                   | 1093A | 4  | E1 | 7500 | 2286.0 | 1492.5 | 678.4 | .064 | 1.63 | .577  | 14.66 | 347  | 1544 | 6.00  | 152.40 |
|                                                                                                                   | 1094A | 8  | E1 | 5000 | 1524.0 | 1770.0 | 804.5 | .064 | 1.63 | .743  | 18.87 | 672  | 2989 | 7.50  | 190.50 |
|                                                                                                                   | 1095A | 12 | E1 | 2500 | 762.0  | 1332.5 | 605.7 | .084 | 2.13 | .939  | 23.85 | 997  | 4435 | 9.75  | 247.65 |
|                                                                                                                   | 3066A | 16 | E1 | Bulk | Bulk   | —      | —     | .084 | 2.13 | 1.046 | 26.57 | 1322 | 5881 | 10.50 | 266.70 |
|                                                                                                                   | 1096A | 24 | E1 | 2000 | 609.6  | 1946.0 | 884.5 | .084 | 2.13 | 1.280 | 32.51 | 1971 | 8768 | 13.00 | 330.20 |

E1, E2 = Refer to Industrial Technical Information section for color code.  
 Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Bulk = Non-stocked item. Specify length, 1 piece per reel.

### Conductor, Insulation and Jacket Options

#### To Specify:

1234 A

Start with Part No. Add or replace letter code

| Bare | Tinned | Insulation/Jacket    |
|------|--------|----------------------|
| A    | B      | PVC-Nylon/PVC        |
| C    | D      | XLPE/PVC             |
| E    | F      | FRPO/PVC             |
| G    | H      | XLPE/TPE             |
| K    | L      | TPE/TPE              |
| M    | N      | PVC-Nylon/Oil Res II |
| Q    | R      | XLPE/CPE             |
| S    | T      | XLPE/Haloarrest® I   |



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# Instrumentation Cable

## 600V Tray Cables

| Description | Part No. | No. of Pairs | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 16 AWG Pairs Stranded (19x29) Tinned Copper • Twisted Pairs

#### Unshielded • PVC/Nylon Insulation • PVC Jacket

|                     |      |   |    |             |                |              |              |      |      |      |      |    |     |      |       |
|---------------------|------|---|----|-------------|----------------|--------------|--------------|------|------|------|------|----|-----|------|-------|
| NEC: TC<br>CEC: FT4 | 9487 | 1 | E2 | 500<br>1000 | 152.4<br>304.8 | 26.5<br>52.0 | 12.0<br>23.6 | .048 | 1.22 | .299 | 7.59 | 70 | 311 | 3.00 | 76.20 |
|---------------------|------|---|----|-------------|----------------|--------------|--------------|------|------|------|------|----|-----|------|-------|



Rip Cord

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket

|                     |      |   |    |             |                |              |              |      |      |      |      |     |     |      |       |
|---------------------|------|---|----|-------------|----------------|--------------|--------------|------|------|------|------|-----|-----|------|-------|
| NEC: TC<br>CEC: FT4 | 9342 | 1 | E2 | 500<br>1000 | 152.4<br>304.8 | 30.0<br>60.0 | 13.6<br>27.3 | .048 | 1.22 | .301 | 7.65 | 105 | 467 | 3.00 | 76.20 |
|---------------------|------|---|----|-------------|----------------|--------------|--------------|------|------|------|------|-----|-----|------|-------|

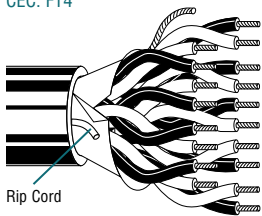


Rip Cord

### 16 AWG Pairs Stranded (7x24) Bare Copper • Twisted Pairs

#### Overall 100% Beldfoil Shield • PVC/Nylon Insulation • PVC Jacket (See chart below for other options)

|                          |       |    |    |       |        |        |        |      |      |       |       |      |       |       |        |
|--------------------------|-------|----|----|-------|--------|--------|--------|------|------|-------|-------|------|-------|-------|--------|
| NEC: TC/NPLF<br>CEC: FT4 | 1118A | 1  | E2 | 10000 | 3048.0 | 560.0  | 254.5  | .048 | 1.22 | .302  | 7.67  | 105  | 467   | 3.00  | 76.20  |
|                          | 3090A | 1  | E1 | Bulk* | Bulk*  | —      | —      | .048 | 1.22 | .302  | 7.67  | 105  | 467   | 3.00  | 76.20  |
|                          | 1069A | 2  | E1 | 7500  | 2286.0 | 720.0  | 327.3  | .048 | 1.22 | .451  | 11.46 | 179  | 796   | 4.50  | 114.30 |
|                          | 1527A | 3  | E1 | 7500  | 2286.0 | 1020.0 | 463.6  | .053 | 1.35 | .486  | 12.34 | 250  | 1112  | 4.75  | 120.65 |
|                          | 1070A | 4  | E1 | 7500  | 2286.0 | 1387.5 | 630.7  | .066 | 1.68 | .558  | 14.17 | 321  | 1428  | 5.50  | 139.70 |
|                          | 1071A | 8  | E1 | 7500  | 2286.0 | 2250.0 | 1022.7 | .066 | 1.68 | .670  | 17.02 | 607  | 2700  | 6.75  | 171.45 |
|                          | 1072A | 12 | E1 | 5000  | 1524.0 | 2095.0 | 952.3  | .066 | 1.68 | .804  | 20.42 | 893  | 3973  | 8.00  | 203.20 |
|                          | 1073A | 16 | E1 | 2500  | 762.0  | 1455.0 | 661.4  | .084 | 2.13 | .928  | 23.57 | 1178 | 5240  | 9.50  | 241.30 |
|                          | 1074A | 24 | E1 | 1250  | 381.0  | 1053.8 | 479.0  | .089 | 2.26 | 1.147 | 29.13 | 1892 | 8417  | 11.50 | 292.10 |
|                          | 1089A | 36 | E1 | 1250  | 381.0  | 1401.3 | 636.9  | .084 | 2.13 | 1.297 | 32.94 | 2606 | 11593 | 13.00 | 330.20 |
|                          | 1090A | 50 | E1 | 1250  | 381.0  | 941.3  | 427.8  | .084 | 2.13 | 1.588 | 40.34 | 3606 | 16042 | 16.00 | 406.40 |



Rip Cord

#### Individually Shielded + Overall 100% Beldfoil Shield • PVC/Nylon Insulation • PVC Jacket (See chart for options)

|                           |       |    |    |      |        |        |       |      |      |       |       |      |       |       |        |
|---------------------------|-------|----|----|------|--------|--------|-------|------|------|-------|-------|------|-------|-------|--------|
| NEC: TC, NPLF<br>CEC: FT4 | 1055A | 2  | E1 | 7500 | 2286.0 | 885.0  | 402.3 | .048 | 1.22 | .416  | 10.57 | 223  | 992   | 4.25  | 107.95 |
|                           | 1037A | 3  | E1 | 7500 | 2286.0 | 1087.5 | 494.3 | .048 | 1.22 | .476  | 12.09 | 317  | 1410  | 4.75  | 120.65 |
|                           | 1039A | 4  | E1 | 7500 | 2286.0 | 1515.0 | 688.6 | .064 | 1.63 | .578  | 14.68 | 411  | 1828  | 5.75  | 146.05 |
|                           | 1040A | 6  | E1 | 5000 | 1524.0 | 1455.0 | 661.4 | .064 | 1.63 | .674  | 17.12 | 599  | 2665  | 6.75  | 171.45 |
|                           | 1041A | 8  | E1 | 5000 | 1524.0 | 1815.0 | 825.0 | .064 | 1.63 | .725  | 18.42 | 786  | 3497  | 7.25  | 184.15 |
|                           | 1042A | 12 | E1 | 2500 | 762.0  | 1340.0 | 609.1 | .084 | 2.13 | .868  | 22.05 | 1161 | 5165  | 8.75  | 222.25 |
|                           | 1043A | 16 | E1 | 2500 | 762.0  | 1765.0 | 802.3 | .084 | 2.13 | 1.013 | 25.73 | 1537 | 6838  | 10.25 | 260.35 |
|                           | 1044A | 20 | E1 | 2500 | 762.0  | 2042.5 | 928.4 | .084 | 2.13 | 1.121 | 28.47 | 1912 | 8506  | 11.25 | 285.75 |
|                           | 1045A | 24 | E1 | 1250 | 381.0  | 1248.8 | 567.6 | .084 | 2.13 | 1.244 | 31.60 | 2287 | 10174 | 12.50 | 317.50 |
|                           | 1046A | 36 | E1 | 1250 | 381.0  | 1798.8 | 817.6 | .084 | 2.13 | 1.423 | 36.14 | 3413 | 15183 | 14.25 | 361.95 |
|                           | 1047A | 50 | E1 | 1000 | 304.8  | 358.0  | 162.7 | .084 | 2.13 | 1.713 | 43.51 | 4726 | 21024 | 17.25 | 438.15 |



Rip Cord

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

### Conductor, Insulation and Jacket Options\*\*

| To Specify:         |                            | Bare | Tinned | Insulation/Jacket    |
|---------------------|----------------------------|------|--------|----------------------|
| 1234                | A                          | A    | B      | PVC-Nylon/PVC        |
|                     |                            | C    | D      | XLPE/PVC             |
| Start with Part No. | Add or replace letter code | E    | F      | FRPO/PVC             |
|                     |                            | G    | H      | XLPE/TPE             |
|                     |                            | K    | L      | TPE/TPE              |
|                     |                            | M    | N      | PVC-Nylon/Oil Res II |
|                     |                            | Q    | R      | XLPE/CPE             |
|                     |                            | S    | T      | XLPE/Haloarrest® I   |

\*\*For 1000 and 3000 Series cables only.



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**1-800-527-0010**

# Instrumentation Cable

## 600V Tray Cables

| Description | Part No. | No. of Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |               |            | ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 16 AWG Triads Stranded (7x24) Bare Copper • Twisted Triads

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



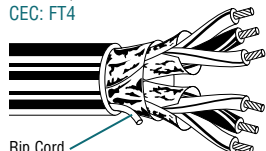
Rip Cord

|              |   |    |       |        |       |       |      |      |      |      |     |     |      |       |
|--------------|---|----|-------|--------|-------|-------|------|------|------|------|-----|-----|------|-------|
| <b>1119A</b> | 1 | E2 | 500   | 152.4  | 36.0  | 16.4  | .048 | 1.22 | .317 | 8.05 | 143 | 636 | 3.00 | 76.20 |
|              |   |    | 1000  | 304.8  | 69.0  | 31.4  |      |      |      |      |     |     |      |       |
|              |   |    | 10000 | 3048.0 | 710.0 | 322.7 |      |      |      |      |     |     |      |       |

|              |   |    |       |       |   |   |      |      |      |      |     |     |      |       |
|--------------|---|----|-------|-------|---|---|------|------|------|------|-----|-----|------|-------|
| <b>3091A</b> | 1 | E1 | Bulk* | Bulk* | — | — | .048 | 1.22 | .317 | 8.05 | 143 | 636 | 3.00 | 76.20 |
|--------------|---|----|-------|-------|---|---|------|------|------|------|-----|-----|------|-------|

#### Individually Shielded + Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket (See chart for options)

NEC: TC, NPLF  
CEC: FT4



Rip Cord

|              |    |    |       |        |        |       |      |      |       |       |      |       |       |        |
|--------------|----|----|-------|--------|--------|-------|------|------|-------|-------|------|-------|-------|--------|
| <b>1097A</b> | 4  | E1 | 5000  | 1524.0 | 1425.0 | 647.7 | .064 | 1.63 | .646  | 16.41 | 554  | 2465  | 6.50  | 165.10 |
| <b>1098A</b> | 8  | E1 | 2500  | 762.0  | 1362.5 | 619.3 | .084 | 2.13 | .877  | 22.28 | 1072 | 4769  | 8.75  | 222.25 |
| <b>1099A</b> | 12 | E1 | 2500  | 762.0  | 1890.0 | 859.1 | .089 | 2.26 | 1.065 | 27.05 | 1590 | 7073  | 10.50 | 266.70 |
| <b>3118A</b> | 16 | E1 | Bulk* | Bulk*  | —      | —     | .084 | 2.13 | 1.234 | 31.34 | 1771 | 7879  | 12.25 | 311.15 |
| <b>1100A</b> | 24 | E1 | 1250  | 381.0  | 1758.8 | 799.4 | .084 | 2.13 | 1.447 | 36.75 | 3144 | 13986 | 14.50 | 368.30 |
| <b>3130A</b> | 36 | E1 | Bulk* | Bulk*  | —      | —     | .110 | 2.79 | 1.773 | 45.03 | 3600 | 16015 | 18.00 | 457.20 |

E1, E2 = Refer to Industrial Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

### Conductor, Insulation and Jacket Options

#### To Specify:

**1234 A**

Start with Part No. Add or replace letter code

| Bare     | Tinned   | Insulation/Jacket    |
|----------|----------|----------------------|
| <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| <b>C</b> | <b>D</b> | XLPE/PVC             |
| <b>E</b> | <b>F</b> | FRPO/PVC             |
| <b>G</b> | <b>H</b> | XLPE/TPE             |
| <b>K</b> | <b>L</b> | TPE/TPE              |
| <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
| <b>Q</b> | <b>R</b> | XLPE/CPE             |
| <b>S</b> | <b>T</b> | XLPE/Haloarrest® I   |



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# Instrumentation Cable

## 600V Tray Cables

| Description | Part No. | No. of Pairs/Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |                     |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 14 AWG Pairs Stranded (42x30) Tinned Copper • Twisted Pairs

#### Unshielded • PVC/Nylon Insulation • PVC Jacket

|          |      |   |    |      |       |      |      |      |      |      |      |     |     |      |       |
|----------|------|---|----|------|-------|------|------|------|------|------|------|-----|-----|------|-------|
| NEC: TC  | 9488 | 1 | E2 | 1000 | 304.8 | 78.0 | 35.5 | .048 | 1.22 | .359 | 9.12 | 107 | 476 | 3.50 | 88.90 |
| CEC: FT4 |      |   |    |      |       |      |      |      |      |      |      |     |     |      |       |



Rip Cord

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket

|          |      |   |    |      |       |      |      |      |      |      |      |     |     |      |       |
|----------|------|---|----|------|-------|------|------|------|------|------|------|-----|-----|------|-------|
| NEC: TC  | 9343 | 1 | E2 | 500  | 152.4 | 43.5 | 19.8 | .048 | 1.22 | .358 | 9.09 | 160 | 712 | 3.50 | 88.90 |
| CEC: FT4 |      |   |    | 1000 | 304.8 | 85.0 | 38.6 |      |      |      |      |     |     |      |       |



Rip Cord

### 14 AWG Pairs Stranded (7x22) Bare Copper • Twisted Pairs

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket (See chart below for other options)

|               |       |   |    |       |       |   |   |      |      |      |      |     |     |      |       |
|---------------|-------|---|----|-------|-------|---|---|------|------|------|------|-----|-----|------|-------|
| NEC: TC, NPLF | 3080A | 1 | E1 | Bulk* | Bulk* | — | — | .048 | 1.22 | .342 | 8.69 | 160 | 712 | 3.50 | 88.90 |
| CEC: FT4      |       |   |    |       |       |   |   |      |      |      |      |     |     |      |       |



Rip Cord

### 14 AWG Triads Stranded (7x22) Bare Copper • Twisted Triads

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket

|               |       |   |    |       |       |   |   |      |      |      |      |     |     |      |       |
|---------------|-------|---|----|-------|-------|---|---|------|------|------|------|-----|-----|------|-------|
| NEC: TC, NPLF | 3081A | 1 | E1 | Bulk* | Bulk* | — | — | .048 | 1.22 | .361 | 9.17 | 200 | 890 | 3.50 | 88.90 |
| CEC: FT4      |       |   |    |       |       |   |   |      |      |      |      |     |     |      |       |



Rip Cord

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options\*\*

| To Specify:                                                 |   | Bare | Tinned | Insulation/Jacket    |
|-------------------------------------------------------------|---|------|--------|----------------------|
| 1234 A<br>Start with Part No.<br>Add or replace letter code | A | B    |        | PVC-Nylon/PVC        |
|                                                             | C | D    |        | XLPE/PVC             |
|                                                             | E | F    |        | FRPO/PVC             |
|                                                             | G | H    |        | XLPE/TPE             |
|                                                             | K | L    |        | TPE/TPE              |
|                                                             | M | N    |        | PVC-Nylon/Oil Res II |
|                                                             | Q | R    |        | XLPE/CPE             |
|                                                             | S | T    |        | XLPE/Haloarrest® I   |

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# Instrumentation Cable

## 600V Tray Cables

| Description | Part No. | No. of Pairs/Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |                     |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 12 AWG Pairs Stranded (37x27) Tinned Copper • Twisted Pairs

#### Unshielded • PVC/Nylon Insulation • PVC Jacket

|          |             |   |    |      |       |      |      |      |      |      |      |     |     |      |       |
|----------|-------------|---|----|------|-------|------|------|------|------|------|------|-----|-----|------|-------|
| NEC: TC  | <b>9489</b> | 1 | E2 | 1000 | 304.8 | 89.0 | 40.5 | .045 | 1.14 | .380 | 9.65 | 170 | 756 | 3.75 | 95.25 |
| CEC: FT4 |             |   |    |      |       |      |      |      |      |      |      |     |     |      |       |



Rip Cord

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket

|          |             |   |    |      |       |       |      |      |      |      |      |     |      |      |       |
|----------|-------------|---|----|------|-------|-------|------|------|------|------|------|-----|------|------|-------|
| NEC: TC  | <b>9344</b> | 1 | E2 | 500  | 152.4 | 53.5  | 24.3 | .045 | 1.14 | .384 | 9.75 | 253 | 1126 | 3.75 | 95.25 |
| CEC: FT4 |             |   |    | 1000 | 304.8 | 106.0 | 48.2 |      |      |      |      |     |      |      |       |



Rip Cord

### 12 AWG Pairs Stranded (7x20) Bare Copper • Twisted Pairs

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket (See chart below for other options)

|               |              |   |    |       |       |   |   |      |      |      |      |     |      |      |       |
|---------------|--------------|---|----|-------|-------|---|---|------|------|------|------|-----|------|------|-------|
| NEC: TC, NPLF | <b>3103A</b> | 1 | E1 | Bulk* | Bulk* | — | — | .048 | 1.22 | .380 | 9.65 | 253 | 1126 | 3.75 | 95.25 |
| CEC: FT4      |              |   |    |       |       |   |   |      |      |      |      |     |      |      |       |



Rip Cord

### 12 AWG Triads Stranded (7x20) Bare Copper • Twisted Triads

#### Overall 100% Beldfoil® Shield • PVC/Nylon Insulation • PVC Jacket (See chart below for other options)

|               |              |   |    |       |       |   |   |      |      |      |       |     |      |      |        |
|---------------|--------------|---|----|-------|-------|---|---|------|------|------|-------|-----|------|------|--------|
| NEC: TC, NPLF | <b>3104A</b> | 1 | E1 | Bulk* | Bulk* | — | — | .048 | 1.22 | .395 | 10.03 | 315 | 8001 | 4.00 | 101.60 |
| CEC: FT4      |              |   |    |       |       |   |   |      |      |      |       |     |      |      |        |



Rip Cord

E1, E2 = Refer to Industrial Technical Information section for color code.  
Alternate color coding available upon request.

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options\*\*

| To Specify:                                              |  | Bare | Tinned | Insulation/Jacket    |
|----------------------------------------------------------|--|------|--------|----------------------|
| 1234 A<br>Start with Part No. Add or replace letter code |  | A    | B      | PVC-Nylon/PVC        |
|                                                          |  | C    | D      | XLPE/PVC             |
|                                                          |  | E    | F      | FRPO/PVC             |
|                                                          |  | G    | H      | XLPE/TPE             |
|                                                          |  | K    | L      | TPE/TPE              |
|                                                          |  | M    | N      | PVC-Nylon/Oil Res II |
|                                                          |  | Q    | R      | XLPE/CPE             |
|                                                          |  | S    | T      | XLPE/Haloarrest® I   |

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## Control Cable

### 600V Type TC Cables — Overview

#### Introduction

Belden offers a wide selection of UL-rated 600V Tray Cable for a variety of control applications.

Multi-conductor versions are available from 18 to 1 AWG. These are unshielded and shielded versions that come with various insulation and jacket combinations.

These TC cables are installed in cable trays, ducts and conduit and can be used in direct burial applications. They are extensively used in manufacturing facilities, especially in the process industries such as petrochemical, steel, pulp and paper, cement and mining.

These flexible, space efficient cables can be substantially more economical than traditional wiring methods.

#### Construction

Soft annealed bare or tinned copper conductors, with various insulation and jacketing options as seen in chart below.

#### Tray Cable Construction Options

| UL Listed for MC and TC                      |                  |      |                                          |  |
|----------------------------------------------|------------------|------|------------------------------------------|--|
| Insulation/Jacket                            | Max. Temp Rating |      | Flame Tests                              |  |
|                                              | Wet              | Dry  |                                          |  |
| PVC—Nylon/PVC (THHN or THWN) 14 AWG & larger | 75°C             | 90°C | UL 1581 FT4/IEEE 1202                    |  |
| PVC—Nylon/PVC (TFN or TFFN) 16 & 18 AWG      | NA               | 90°C | UL 1581 FT4/IEEE 1202                    |  |
| XLPE (XHHW-2)/PVC or CPE 14 AWG & larger     | 90°C             | 90°C | UL 1581 FT4/IEEE 1202 VW-1 rated singles |  |
| XLPE (RFH-2)/PVC or CPE 16 & 18 AWG          | 75°C             | 75°C | UL 1581 FT4/IEEE 1202 VW-1 rated singles |  |
| FRPO/PVC 18 AWG & larger                     | —                | 75°C | UL 1581                                  |  |
| TPE/TPE                                      | 75°C             | 90°C | UL 1581                                  |  |
| FRPO/PVC                                     | 75°C             | 90°C | UL 1581                                  |  |
| XLPE/Haloarrest® I (XHHW-2) 14 AWG & larger  | 90°C             | 90°C | UL 1581 VW-1 rated singles               |  |
| XLPE/Haloarrest I 16 & 18 AWG (RFH-2)        | 75°C             | 75°C | UL 1581                                  |  |
| FEP/PVC                                      | 90°C             | 90°C | UL 1581                                  |  |
| XLPE/Hypalon® (XHHW-2) 14 AWG & larger       | 90°C             | 90°C | UL 1581 VW-1 rated singles               |  |
| XLPE/Hypalon (RFH-2) 16 & 18 AWG             | 75°C             | 75°C | UL 1581 VW-1 rated singles               |  |

#### Voltage Rating

600 Volt TC

#### Temperature Rating

See Tray Cable Construction chart above.

#### Application

These cables are suitable for installation in wet or dry locations. Cable jackets are resistant to sunlight, moisture and vapor penetration. The cables can be used in raceways (supported by messenger wire), outdoor applications and direct burial applications.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1 or 1-800-BELDEN-3.

#### Unshielded

Cabled non-shielded conductors provide a minimal O.D. allowing greater tray and conduit fill. Non-shielded control cable may be utilized when recommended by the equipment manufacturer and used in a metallic conduit.

#### Overall Shield

Recommended for use in control applications where signals are transmitted in excess of 100 millivolts, except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

Only 2-conductor round constructions can be shielded. Flat constructions cannot be shielded.

#### Ground Wire

- Non-insulated, bare copper ground wires are included for constructions 8 through 2 AWG. Non-insulated, bare copper, full sized ground wires may be requested on other constructions.
- All shielded PVC-Nylon/PVC constructions include full sized ground (drain) wires.

#### Color Code

Multi-conductor control cables (10 AWG to 18 AWG) are printed alpha-numerically in addition to being color coded per ICEA Table E2.

8 AWG and larger are black and numbered per ICEA Method 4.

Refer to Industrial Technical Information for ICEA color code charts.

#### Specifications

- UL Subject 1277
- UL Subject 1424 (per outline for NPLF requirements dated May 3, 1979)
- UL 1581 Vertical Flame Test comparable to IEEE 383 (70,000 BTU/hr) Flame Test
- Approved for cable tray use in Class 1, Division 2 areas, per NEC Articles 340, 318 and 501, and for Class 1 circuits as permitted in Article 725
- PVC-Nylon/PVC, XLPE/PVC and XLPE/CPE constructed cables meet IEEE 1202/FT4 (70,000 BTU/hr) Flame Tests

Hypalon is a DuPont trademark.



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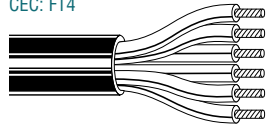
1-800-527-0010

**Control Cable****600V Type TC Cables**

| Description | Part No. | No. of Cond. | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

**18 AWG Multi-conductor** Stranded (7x26) Bare Copper**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

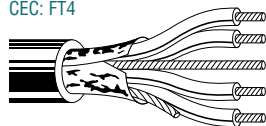
NEC: TC, NPLF  
CEC: FT4



|                 |    |    |       |        |       |       |      |      |                 |                   |     |      |       |        |
|-----------------|----|----|-------|--------|-------|-------|------|------|-----------------|-------------------|-----|------|-------|--------|
| <b>27916A†</b>  | 2  | E2 | 10000 | 3048.0 | 420.0 | 190.9 | .045 | 1.14 | .19<br>x<br>.28 | 4.83<br>x<br>7.11 | 26  | 116  | 1.90  | 48.26  |
| <b>27325A††</b> | 2  | E2 | Bulk* | Bulk*  | —     | —     | .045 | 1.14 | .27             | 6.86              | 26  | 116  | 3.00  | 76.20  |
| <b>27334A</b>   | 3  | E2 | Bulk* | Bulk*  | —     | —     | .045 | 1.14 | .28             | 7.11              | 39  | 173  | 3.25  | 82.55  |
| <b>27326A</b>   | 4  | E2 | 10000 | 3048.0 | 620.0 | 281.8 | .045 | 1.14 | .31             | 7.87              | 52  | 231  | 3.50  | 88.90  |
| <b>27335A</b>   | 5  | E2 | Bulk* | Bulk*  | —     | —     | .045 | 1.14 | .33             | 8.38              | 65  | 289  | 4.00  | 101.60 |
| <b>27600A</b>   | 6  | E2 | Bulk* | Bulk*  | —     | —     | .045 | 1.14 | .36             | 9.14              | 78  | 347  | 4.25  | 107.95 |
| <b>27327A</b>   | 7  | E2 | Bulk* | Bulk*  | —     | —     | .045 | 1.14 | .36             | 9.14              | 91  | 405  | 4.25  | 107.95 |
| <b>27601A</b>   | 8  | E2 | Bulk* | Bulk*  | —     | —     | .045 | 1.14 | .38             | 9.65              | 104 | 463  | 4.50  | 114.30 |
| <b>27336A</b>   | 9  | E2 | Bulk* | Bulk*  | —     | —     | .045 | 1.14 | .41             | 10.41             | 117 | 520  | 5.00  | 127.00 |
| <b>27328A</b>   | 10 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .44             | 11.18             | 130 | 578  | 5.75  | 146.05 |
| <b>27602A</b>   | 11 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .45             | 11.43             | 143 | 636  | 5.75  | 146.05 |
| <b>27329A</b>   | 12 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .46             | 11.68             | 155 | 690  | 5.75  | 146.05 |
| <b>27603A</b>   | 13 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .48             | 12.19             | 169 | 752  | 6.00  | 152.40 |
| <b>27604A</b>   | 14 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .48             | 12.19             | 182 | 810  | 6.00  | 152.40 |
| <b>27605A</b>   | 15 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .51             | 12.95             | 195 | 867  | 6.25  | 158.75 |
| <b>27606A</b>   | 16 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .52             | 13.21             | 208 | 925  | 6.25  | 158.75 |
| <b>27607A</b>   | 17 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .57             | 14.48             | 220 | 979  | 6.75  | 171.45 |
| <b>27608A</b>   | 18 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .57             | 14.48             | 233 | 1037 | 6.75  | 171.45 |
| <b>27609A</b>   | 19 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .57             | 14.48             | 247 | 1099 | 6.75  | 171.45 |
| <b>27610A</b>   | 20 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .59             | 14.99             | 260 | 1157 | 7.00  | 177.80 |
| <b>27611A</b>   | 25 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .65             | 16.51             | 325 | 1446 | 7.75  | 196.85 |
| <b>27612A</b>   | 30 | E2 | Bulk* | Bulk*  | —     | —     | .060 | 1.52 | .69             | 17.53             | 390 | 1735 | 8.25  | 209.55 |
| <b>27613A</b>   | 37 | E2 | Bulk* | Bulk*  | —     | —     | .080 | 2.03 | .74             | 18.80             | 481 | 2140 | 9.50  | 241.30 |
| <b>27614A</b>   | 50 | E2 | Bulk* | Bulk*  | —     | —     | .080 | 2.03 | .91             | 23.11             | 650 | 2892 | 11.00 | 279.40 |
| <b>27632A</b>   | 60 | E2 | Bulk* | Bulk*  | —     | —     | .080 | 2.03 | .96             | 24.38             | 780 | 3470 | 12.50 | 317.50 |

**18 AWG Multi-conductor** Stranded (7x26) Bare Copper • Overall 100% Beldfoil® Shield with Drain Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



|                |   |    |       |        |       |       |      |      |      |      |     |     |      |       |
|----------------|---|----|-------|--------|-------|-------|------|------|------|------|-----|-----|------|-------|
| <b>27325AS</b> | 2 | E2 | 10000 | 3048.0 | 460.0 | 209.1 | .048 | 1.22 | .276 | 7.01 | 67  | 298 | 2.80 | 71.12 |
| <b>27334AS</b> | 3 | E2 | 10000 | 3048.0 | 560.0 | 254.5 | .048 | 1.22 | .292 | 7.42 | 90  | 400 | 2.90 | 73.66 |
| <b>27326AS</b> | 4 | E2 | 10000 | 3048.0 | 690.0 | 313.6 | .048 | 1.22 | .315 | 8.00 | 112 | 498 | 3.10 | 81.28 |

E2 = Refer to Industrial Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

**Conductor, Insulation and Jacket Options**

| To Specify:              |                                        |                                      |
|--------------------------|----------------------------------------|--------------------------------------|
| <b>12345</b>             | <b>A</b>                               | <b>S</b>                             |
| Start with core Part No. | add Conductor, Insulation, Jacket type | add "S" for optional Beldfoil Shield |

| Bare     | Tinned   | Insulation/Jacket    |
|----------|----------|----------------------|
| <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| <b>C</b> | <b>D</b> | XLPE/PVC             |
| <b>E</b> | <b>F</b> | FRPO/PVC             |
| <b>G</b> | <b>H</b> | XLPE/TPE             |
| <b>K</b> | <b>L</b> | TPE/TPE              |
| <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
| <b>Q</b> | <b>R</b> | XLPE/CPE             |
| <b>S</b> | <b>T</b> | XLPE/Haloarrest® I   |

## Control Cable

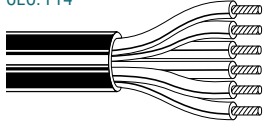
### 600V Type TC Cables

| Description | Part No. | No. of Cond. | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 16 AWG Multi-conductor Stranded (7x24) Bare Copper

##### PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4

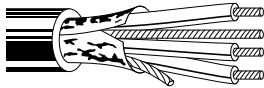


|          |    |    |       |        |        |       |      |      |                 |                   |      |      |       |        |
|----------|----|----|-------|--------|--------|-------|------|------|-----------------|-------------------|------|------|-------|--------|
| 27917A†  | 2  | E2 | 10000 | 3048.0 | 480.0  | 218.2 | .045 | 1.14 | .22<br>x<br>.34 | 5.59<br>x<br>8.64 | 41   | 182  | 2.00  | 50.80  |
| 27337A†† | 2  | E2 | Bulk* | Bulk*  | —      | —     | .045 | 1.14 | .34             | 8.64              | 41   | 182  | 3.50  | 88.90  |
| 27331A   | 3  | E2 | 10000 | 3048.0 | 680.0  | 309.1 | .045 | 1.14 | .36             | 9.14              | 62   | 276  | 3.50  | 88.90  |
| 27338A   | 4  | E2 | 10000 | 3048.0 | 780.0  | 354.5 | .045 | 1.14 | .39             | 9.91              | 83   | 369  | 4.00  | 101.60 |
| 27339A   | 5  | E2 | 10000 | 3048.0 | 950.0  | 431.8 | .045 | 1.14 | .43             | 10.92             | 103  | 458  | 4.25  | 107.95 |
| 27615A   | 6  | E2 | Bulk* | Bulk*  | —      | —     | .045 | 1.14 | .46             | 11.68             | 124  | 552  | 4.50  | 114.30 |
| 27323A   | 7  | E2 | 10000 | 3048.0 | 1280.0 | 581.8 | .045 | 1.14 | .46             | 11.68             | 145  | 645  | 4.50  | 114.30 |
| 27616A   | 8  | E2 | 10000 | 3048.0 | 1390.0 | 631.8 | .045 | 1.14 | .50             | 12.70             | 165  | 734  | 5.00  | 127.00 |
| 27340A   | 9  | E2 | Bulk* | Bulk*  | —      | —     | .045 | 1.14 | .57             | 14.48             | 186  | 827  | 5.75  | 146.05 |
| 27617A   | 10 | E2 | Bulk* | Bulk*  | —      | —     | .045 | 1.14 | .61             | 15.49             | 207  | 921  | 6.00  | 152.40 |
| 27618A   | 11 | E2 | Bulk* | Bulk*  | —      | —     | .045 | 1.14 | .61             | 15.49             | 227  | 1010 | 6.00  | 152.40 |
| 27341A   | 12 | E2 | 5000  | 1524.0 | 900.0  | 409.1 | .045 | 1.14 | .63             | 16.00             | 248  | 1103 | 6.25  | 158.75 |
| 27619A   | 13 | E2 | Bulk* | Bulk*  | —      | —     | .045 | 1.14 | .66             | 16.76             | 269  | 1197 | 6.50  | 165.10 |
| 27620A   | 14 | E2 | Bulk* | Bulk*  | —      | —     | .045 | 1.14 | .66             | 16.76             | 290  | 1290 | 6.50  | 165.10 |
| 27621A   | 15 | E2 | Bulk* | Bulk*  | —      | —     | .060 | 1.52 | .70             | 17.78             | 310  | 1379 | 7.00  | 177.80 |
| 27330A   | 16 | E2 | Bulk* | Bulk*  | —      | —     | .060 | 1.52 | .70             | 17.78             | 331  | 1472 | 7.00  | 177.80 |
| 27622A   | 17 | E2 | Bulk* | Bulk*  | —      | —     | .060 | 1.52 | .74             | 18.80             | 351  | 1561 | 7.50  | 190.50 |
| 27623A   | 18 | E2 | Bulk* | Bulk*  | —      | —     | .060 | 1.52 | .74             | 18.80             | 372  | 1655 | 7.50  | 190.50 |
| 27624A   | 19 | E2 | Bulk* | Bulk*  | —      | —     | .060 | 1.52 | .74             | 18.80             | 392  | 1744 | 7.50  | 190.50 |
| 27625A   | 20 | E2 | Bulk* | Bulk*  | —      | —     | .060 | 1.52 | .77             | 19.56             | 412  | 1833 | 7.75  | 196.85 |
| 27324A   | 25 | E2 | Bulk* | Bulk*  | —      | —     | .080 | 2.03 | .90             | 22.86             | 515  | 2291 | 9.00  | 228.60 |
| 27626A   | 30 | E2 | Bulk* | Bulk*  | —      | —     | .080 | 2.03 | .95             | 24.13             | 619  | 2754 | 9.50  | 241.30 |
| 27627A   | 37 | E2 | Bulk* | Bulk*  | —      | —     | .080 | 2.03 | 1.02            | 25.91             | 763  | 3394 | 10.25 | 260.35 |
| 27628A   | 50 | E2 | Bulk* | Bulk*  | —      | —     | .080 | 2.03 | 1.12            | 28.45             | 1031 | 4587 | 11.25 | 285.75 |
| 27633A   | 60 | E2 | Bulk* | Bulk*  | —      | —     | .080 | 2.03 | 1.26            | 32.00             | 1237 | 5503 | 13.00 | 330.20 |

#### 16 AWG Multi-conductor Stranded (7x24) Bare Copper • Overall 100% Beldfoil® Shield with Drain Wire

##### PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



|         |   |    |       |        |       |       |      |      |      |      |     |     |      |       |
|---------|---|----|-------|--------|-------|-------|------|------|------|------|-----|-----|------|-------|
| 27337AS | 2 | E2 | 10000 | 3048.0 | 690.0 | 313.6 | .047 | 1.19 | .302 | 7.67 | 107 | 476 | 3.00 | 76.20 |
| 27331AS | 3 | E2 | 10000 | 3048.0 | 760.0 | 345.5 | .048 | 1.22 | .320 | 8.13 | 143 | 636 | 3.20 | 81.28 |

E2 = Refer to Industrial Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options

| To Specify:              |                                        |                                      |
|--------------------------|----------------------------------------|--------------------------------------|
| <b>12345</b>             | <b>A</b>                               | <b>S</b>                             |
| Start with core Part No. | add Conductor, Insulation, Jacket type | add "S" for optional Beldfoil Shield |

| Bare     | Tinned   | Insulation/Jacket    |
|----------|----------|----------------------|
| <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| <b>C</b> | <b>D</b> | XLPE/PVC             |
| <b>E</b> | <b>F</b> | FRPO/PVC             |
| <b>G</b> | <b>H</b> | XLPE/TPE             |
| <b>K</b> | <b>L</b> | TPE/TPE              |
| <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
| <b>Q</b> | <b>R</b> | XLPE/CPE             |
| <b>S</b> | <b>T</b> | XLPE/Haloarrest® I   |



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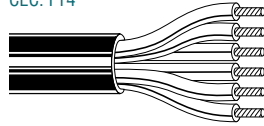
**1-800-527-0010**

**Control Cable****600V Type TC Cables**

| Description | Part No. | No. of Cond. | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

**14 AWG Multi-conductor** Stranded (7x22) Bare Copper**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

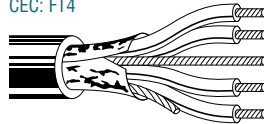
NEC: TC, NPLF  
CEC: FT4



|                 |    |    |       |        |        |        |      |      |                 |                   |      |      |       |        |
|-----------------|----|----|-------|--------|--------|--------|------|------|-----------------|-------------------|------|------|-------|--------|
| <b>27080A†</b>  | 2  | E2 | 10000 | 3048.0 | 640.0  | 290.9  | .045 | 1.14 | .21<br>x<br>.32 | 5.33<br>x<br>8.13 | 87   | 387  | 2.00  | 50.80  |
| <b>27636A††</b> | 2  | E2 | Bulk* | Bulk*  | —      | —      | .045 | 1.14 | .33             | 8.38              | 87   | 387  | 3.70  | 93.98  |
| <b>27081A</b>   | 3  | E2 | 10000 | 3048.0 | 830.0  | 377.3  | .045 | 1.14 | .33             | 8.38              | 131  | 583  | 4.00  | 101.60 |
| <b>27082A</b>   | 4  | E2 | 10000 | 3048.0 | 1030.0 | 468.2  | .045 | 1.14 | .36             | 9.14              | 174  | 774  | 4.25  | 107.95 |
| <b>27083A</b>   | 5  | E2 | 10000 | 3048.0 | 1380.0 | 627.3  | .045 | 1.14 | .39             | 9.91              | 218  | 970  | 4.75  | 120.65 |
| <b>27084A</b>   | 6  | E2 | Bulk* | Bulk*  | —      | —      | .045 | 1.14 | .43             | 10.92             | 262  | 1166 | 5.00  | 127.00 |
| <b>27085A</b>   | 7  | E2 | 10000 | 3048.0 | 1640.0 | 745.5  | .045 | 1.14 | .43             | 10.92             | 306  | 1361 | 5.00  | 127.00 |
| <b>27086A</b>   | 8  | E2 | Bulk* | Bulk*  | —      | —      | .045 | 1.14 | .47             | 11.94             | 350  | 1557 | 5.75  | 146.05 |
| <b>27087A</b>   | 9  | E2 | 5000  | 1524.0 | 1235.0 | 561.4  | .045 | 1.14 | .50             | 12.70             | 393  | 1748 | 6.25  | 158.75 |
| <b>27088A</b>   | 10 | E2 | 5000  | 1524.0 | 1255.0 | 570.5  | .060 | 1.52 | .57             | 14.48             | 437  | 1944 | 6.75  | 171.45 |
| <b>27089A</b>   | 11 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .60             | 15.24             | 481  | 2140 | 6.75  | 171.45 |
| <b>27090A</b>   | 12 | E2 | 5000  | 1524.0 | 1480.0 | 672.7  | .060 | 1.52 | .61             | 15.49             | 524  | 2331 | 7.00  | 177.80 |
| <b>27091A</b>   | 13 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .64             | 16.26             | 568  | 2527 | 7.25  | 184.15 |
| <b>27092A</b>   | 14 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .64             | 16.26             | 611  | 2718 | 7.25  | 184.15 |
| <b>27093A</b>   | 15 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .68             | 17.27             | 655  | 2914 | 7.75  | 196.85 |
| <b>27094A</b>   | 16 | E2 | 5000  | 1524.0 | 1920.0 | 872.7  | .060 | 1.52 | .66             | 16.76             | 699  | 3110 | 7.75  | 196.85 |
| <b>27095A</b>   | 17 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .70             | 17.78             | 742  | 3301 | 8.00  | 203.20 |
| <b>27096A</b>   | 18 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .70             | 17.78             | 786  | 3497 | 8.00  | 203.20 |
| <b>27097A</b>   | 19 | E2 | 5000  | 1524.0 | 2220.0 | 1009.1 | .060 | 1.52 | .70             | 17.78             | 830  | 3692 | 8.00  | 203.20 |
| <b>27098A</b>   | 20 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .74             | 18.80             | 874  | 3888 | 9.00  | 228.60 |
| <b>27099A</b>   | 21 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .75             | 19.05             | 918  | 4084 | 9.00  | 228.60 |
| <b>27100A</b>   | 22 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .78             | 19.81             | 961  | 4275 | 9.50  | 241.30 |
| <b>27101A</b>   | 23 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .78             | 19.81             | 1005 | 4471 | 9.50  | 241.30 |
| <b>27102A</b>   | 24 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .83             | 21.08             | 1048 | 4662 | 10.00 | 254.00 |
| <b>27103A</b>   | 25 | E2 | 5000  | 1524.0 | 2995.0 | 1361.4 | .060 | 1.52 | .83             | 21.08             | 1092 | 4858 | 10.00 | 254.00 |
| <b>27104A</b>   | 26 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .83             | 21.08             | 1136 | 5054 | 10.00 | 254.00 |
| <b>27105A</b>   | 27 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .89             | 22.61             | 1179 | 5245 | 10.50 | 266.70 |
| <b>27106A</b>   | 28 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .92             | 23.37             | 1223 | 5441 | 10.50 | 266.70 |
| <b>27107A</b>   | 29 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .92             | 23.37             | 1266 | 5632 | 10.50 | 266.70 |
| <b>27108A</b>   | 30 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .90             | 22.86             | 1310 | 5828 | 10.50 | 266.70 |
| <b>27629A</b>   | 37 | E2 | 5000  | 1524.0 | 4395.0 | 1997.7 | .080 | 2.03 | .96             | 24.38             | 1616 | 7189 | 11.50 | 292.10 |
| <b>27912A</b>   | 50 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.13            | 28.70             | 1642 | 7305 | 11.70 | 297.18 |

**14 AWG Multi-conductor** Stranded (7x22) Bare Copper • Overall 100% Beldfoil® Shield with Drain Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



|                |   |    |       |        |        |       |      |      |      |      |     |      |      |       |
|----------------|---|----|-------|--------|--------|-------|------|------|------|------|-----|------|------|-------|
| <b>27081AS</b> | 3 | E2 | 10000 | 3048.0 | 1010.0 | 459.1 | .048 | 1.22 | .362 | 9.19 | 218 | 970  | 3.60 | 91.44 |
| <b>27082AS</b> | 4 | E2 | 10000 | 3048.0 | 1270.0 | 577.3 | .048 | 1.22 | .391 | 9.93 | 273 | 1214 | 3.90 | 99.06 |

E2 = Refer to Industrial Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

\* Bulk = Non-stocked item. Specify length, 1 piece per reel.

**Conductor, Insulation and Jacket Options****To Specify:**

|                          |                                        |                                      |
|--------------------------|----------------------------------------|--------------------------------------|
| <b>12345</b>             | <b>A</b>                               | <b>S</b>                             |
| Start with core Part No. | add Conductor, Insulation, Jacket type | add "S" for optional Beldfoil Shield |

| Bare     | Tinned   | Insulation/Jacket    |
|----------|----------|----------------------|
| <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| <b>C</b> | <b>D</b> | XLPE/PVC             |
| <b>E</b> | <b>F</b> | FRPO/PVC             |
| <b>G</b> | <b>H</b> | XLPE/TPE             |
| <b>K</b> | <b>L</b> | TPE/TPE              |
| <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
| <b>Q</b> | <b>R</b> | XLPE/CPE             |
| <b>S</b> | <b>T</b> | XLPE/Haloarrest® I   |



# Control Cable

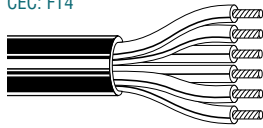
## 600V Type TC Cables

| Description | Part No. | No. of Cond. | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 12 AWG Multi-conductor Stranded (7x20) Bare Copper

#### PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



|          |    |    |       |        |        |        |      |      |                 |                    |      |       |       |        |
|----------|----|----|-------|--------|--------|--------|------|------|-----------------|--------------------|------|-------|-------|--------|
| 27109A†  | 2  | E2 | 10000 | 3048.0 | 820.0  | 372.7  | .045 | 1.14 | .25<br>x<br>.42 | 6.35<br>x<br>10.67 | 122  | 543   | 2.20  | 55.88  |
| 27641A†† | 2  | E2 | Bulk* | Bulk*  | —      | —      | .045 | 1.14 | .42             | 10.67              | 122  | 543   | 4.00  | 101.60 |
| 27110A   | 3  | E2 | 10000 | 3048.0 | 1050.0 | 477.3  | .045 | 1.14 | .44             | 11.18              | 182  | 810   | 4.50  | 114.30 |
| 27111A   | 4  | E2 | 10000 | 3048.0 | 1350.0 | 613.6  | .045 | 1.14 | .48             | 12.19              | 243  | 1081  | 4.75  | 120.65 |
| 27112A   | 5  | E2 | 10000 | 3048.0 | 1650.0 | 750.0  | .045 | 1.14 | .53             | 13.46              | 304  | 1352  | 5.25  | 133.35 |
| 27113A   | 6  | E2 | Bulk* | Bulk*  | —      | —      | .045 | 1.14 | .60             | 15.24              | 365  | 1624  | 6.00  | 152.40 |
| 27114A   | 7  | E2 | 10000 | 3048.0 | 2310.0 | 1050.0 | .045 | 1.14 | .60             | 15.24              | 426  | 1895  | 6.00  | 152.40 |
| 27115A   | 8  | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .65             | 16.51              | 486  | 2162  | 6.50  | 165.10 |
| 27116A   | 9  | E2 | 5000  | 1524.0 | 1660.0 | 754.5  | .060 | 1.52 | .70             | 17.78              | 547  | 2433  | 7.00  | 177.80 |
| 27117A   | 10 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .75             | 19.05              | 608  | 2705  | 7.50  | 190.50 |
| 27118A   | 11 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .75             | 19.05              | 669  | 2976  | 7.50  | 190.50 |
| 27119A   | 12 | E2 | 5000  | 1524.0 | 2065.0 | 938.6  | .060 | 1.52 | .78             | 19.81              | 729  | 3243  | 7.75  | 196.85 |
| 27120A   | 13 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .82             | 20.83              | 790  | 3514  | 8.25  | 209.55 |
| 27121A   | 14 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .82             | 20.83              | 851  | 3786  | 8.25  | 209.55 |
| 27122A   | 15 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .91             | 23.11              | 911  | 4053  | 9.00  | 228.60 |
| 27123A   | 16 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .91             | 23.11              | 972  | 4324  | 9.00  | 228.60 |
| 27124A   | 17 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .95             | 24.13              | 1033 | 4595  | 9.50  | 241.30 |
| 27125A   | 18 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .95             | 24.13              | 1093 | 4862  | 9.50  | 241.30 |
| 27126A   | 19 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .95             | 24.13              | 1154 | 5134  | 9.50  | 241.30 |
| 27127A   | 20 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .98             | 24.89              | 1217 | 5414  | 9.75  | 247.65 |
| 27128A   | 21 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.01            | 25.65              | 1276 | 5676  | 10.00 | 254.00 |
| 27129A   | 22 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.05            | 26.67              | 1337 | 5948  | 10.50 | 266.70 |
| 27130A   | 23 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.05            | 26.67              | 1397 | 6215  | 10.50 | 266.70 |
| 27131A   | 24 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.11            | 28.19              | 1458 | 6486  | 11.00 | 279.40 |
| 27132A   | 25 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.11            | 28.19              | 1519 | 6757  | 11.00 | 279.40 |
| 27133A   | 26 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.11            | 28.19              | 1580 | 7029  | 11.00 | 279.40 |
| 27134A   | 27 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.13            | 28.70              | 1641 | 7300  | 11.25 | 285.75 |
| 27135A   | 28 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.17            | 29.72              | 1701 | 7567  | 11.75 | 298.45 |
| 27136A   | 29 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.17            | 29.72              | 1783 | 7932  | 11.75 | 298.45 |
| 27137A   | 30 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.17            | 29.72              | 1823 | 8110  | 11.75 | 298.45 |
| 27630A   | 37 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.27            | 32.26              | 2248 | 10000 | 12.75 | 323.85 |
| 27634A   | 50 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.49            | 37.85              | 2600 | 11566 | 15.50 | 393.70 |

E2 = Refer to Industrial Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options

| To Specify:              |                                        |                                       |
|--------------------------|----------------------------------------|---------------------------------------|
| <b>12345</b>             | <b>A</b>                               | <b>S</b>                              |
| Start with core Part No. | add Conductor, Insulation, Jacket type | add "S" for optional Beldfoil® Shield |

| Bare     | Tinned   | Insulation/Jacket    |
|----------|----------|----------------------|
| <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| <b>C</b> | <b>D</b> | XLPE/PVC             |
| <b>E</b> | <b>F</b> | FRPO/PVC             |
| <b>G</b> | <b>H</b> | XLPE/TPE             |
| <b>K</b> | <b>L</b> | TPE/TPE              |
| <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
| <b>Q</b> | <b>R</b> | XLPE/CPE             |
| <b>S</b> | <b>T</b> | XLPE/Haloarrest® I   |



By: **INTERSTATEWIRE CO.**  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

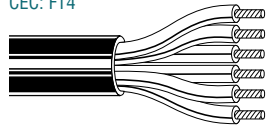
**1-800-527-0010**

**Control Cable****600V Type TC Cables**

| Description | Part No. | No. of Cond. | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

**10 AWG Multi-conductor** Stranded (7x18) Bare Copper**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

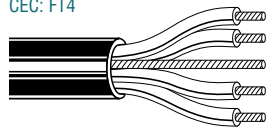
NEC: TC, NPLF  
CEC: FT4



|                 |    |    |       |        |        |        |      |      |                 |                    |     |      |      |        |
|-----------------|----|----|-------|--------|--------|--------|------|------|-----------------|--------------------|-----|------|------|--------|
| <b>27138A†</b>  | 2  | E2 | 10000 | 3048.0 | 1240.0 | 563.6  | .045 | 1.14 | .28<br>x<br>.46 | 7.11<br>x<br>11.68 | 164 | 730  | .30  | 7.62   |
| <b>27643A††</b> | 2  | E2 | Bulk* | Bulk*  | —      | —      | .045 | 1.14 | .46             | 11.68              | 164 | 730  | 4.30 | 109.22 |
| <b>27139A</b>   | 3  | E2 | 10000 | 3048.0 | 1740.0 | 790.9  | .045 | 1.14 | .49             | 12.45              | 247 | 1099 | 5.00 | 127.00 |
| <b>27140A</b>   | 4  | E2 | 10000 | 3048.0 | 2190.0 | 995.5  | .045 | 1.14 | .57             | 14.48              | 329 | 1464 | 6.00 | 152.40 |
| <b>27141A</b>   | 5  | E2 | 10000 | 3048.0 | 2840.0 | 1290.9 | .060 | 1.52 | .62             | 15.75              | 412 | 1833 | 6.30 | 160.02 |
| <b>27142A</b>   | 6  | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .67             | 17.02              | 494 | 2198 | 6.80 | 172.72 |
| <b>27143A</b>   | 7  | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .67             | 17.02              | 576 | 2562 | 6.80 | 172.72 |
| <b>27144A</b>   | 8  | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .73             | 18.54              | 659 | 2932 | 7.30 | 185.42 |
| <b>27145A</b>   | 9  | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .78             | 19.81              | 741 | 3296 | 7.80 | 198.12 |
| <b>27146A</b>   | 10 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .91             | 23.11              | 823 | 3661 | 9.00 | 228.60 |
| <b>27147A</b>   | 11 | E2 | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .91             | 23.11              | 905 | 4026 | 9.00 | 228.60 |
| <b>27148A</b>   | 12 | E2 | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .92             | 23.37              | 988 | 4395 | 9.30 | 236.22 |

**8 AWG Multi-conductor** Stranded (7x16) Bare Copper**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4

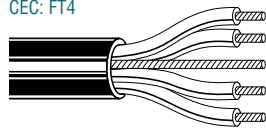


|               |   |    |       |        |        |       |      |      |     |       |     |      |      |        |
|---------------|---|----|-------|--------|--------|-------|------|------|-----|-------|-----|------|------|--------|
| <b>27149A</b> | 2 | ** | Bulk* | Bulk*  | —      | —     | .060 | 1.52 | .62 | 15.75 | 262 | 1166 | 6.00 | 152.40 |
| <b>27150A</b> | 3 | ** | 5000  | 1524.0 | 1855.0 | 843.2 | .060 | 1.52 | .65 | 16.51 | 392 | 1744 | 6.30 | 160.02 |
| <b>27151A</b> | 4 | ** | 5000  | 1524.0 | 2035.0 | 925.0 | .060 | 1.52 | .72 | 18.29 | 523 | 2327 | 6.80 | 172.72 |

\*\*ICEA Method 4 Color Code

**6 AWG Multi-conductor** Stranded (7x14) Bare Copper**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



|               |   |    |       |        |        |        |      |      |     |       |     |      |      |        |
|---------------|---|----|-------|--------|--------|--------|------|------|-----|-------|-----|------|------|--------|
| <b>27152A</b> | 2 | ** | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .69 | 17.53 | 420 | 1868 | 6.80 | 172.72 |
| <b>27153A</b> | 3 | ** | 5000  | 1524.0 | 2390.0 | 1086.4 | .060 | 1.52 | .73 | 18.54 | 630 | 2803 | 7.00 | 177.80 |
| <b>27154A</b> | 4 | ** | 5000  | 1524.0 | 2860.0 | 1300.0 | .060 | 1.52 | .80 | 20.32 | 840 | 3737 | 7.80 | 198.12 |

\*\*ICEA Method 4 Color Code

E2 = Refer to Industrial Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

\*\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

**Conductor, Insulation and Jacket Options**

| To Specify:              |                                        |                                       |
|--------------------------|----------------------------------------|---------------------------------------|
| <b>12345</b>             | <b>A</b>                               | <b>S</b>                              |
| Start with core Part No. | add Conductor, Insulation, Jacket type | add "S" for optional Beldfoil® Shield |

| Bare     | Tinned   | Insulation/Jacket    |
|----------|----------|----------------------|
| <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| <b>C</b> | <b>D</b> | XLPE/PVC             |
| <b>E</b> | <b>F</b> | FRPO/PVC             |
| <b>G</b> | <b>H</b> | XLPE/TPE             |
| <b>K</b> | <b>L</b> | TPE/TPE              |
| <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
| <b>Q</b> | <b>R</b> | XLPE/CPE             |
| <b>S</b> | <b>T</b> | XLPE/Haloarrest® I   |

# Control Cable

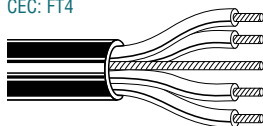
## 600V Type TC Cables

| Description | Part No. | No. of Cond. | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |              |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

### 4 AWG Multi-conductor Stranded (7x12) Bare Copper

#### PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



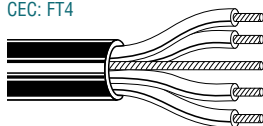
|               |   |    |       |        |        |        |      |      |     |       |      |      |      |        |
|---------------|---|----|-------|--------|--------|--------|------|------|-----|-------|------|------|------|--------|
| <b>27155A</b> | 2 | ** | Bulk* | Bulk*  | —      | —      | .060 | 1.52 | .77 | 19.56 | 664  | 2954 | 7.80 | 198.12 |
| <b>27156A</b> | 3 | ** | 5000  | 1524.0 | 3220.0 | 1463.6 | .080 | 2.03 | .82 | 20.83 | 995  | 4426 | 8.50 | 215.90 |
| <b>27157A</b> | 4 | ** | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .97 | 24.64 | 1327 | 5903 | 9.50 | 241.30 |

\*\*ICEA Method 4 Color Code

### 2 AWG Multi-conductor Stranded (7x10) Bare Copper

#### PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



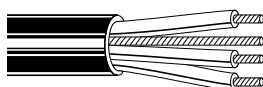
|               |   |    |       |        |        |        |      |      |      |       |      |      |       |        |
|---------------|---|----|-------|--------|--------|--------|------|------|------|-------|------|------|-------|--------|
| <b>27158A</b> | 2 | ** | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | .97  | 24.64 | 1055 | 4693 | 9.30  | 236.22 |
| <b>27159A</b> | 3 | ** | 5000  | 1524.0 | 5255.0 | 2388.6 | .080 | 2.03 | .98  | 24.89 | 1582 | 7038 | 10.00 | 254.00 |
| <b>27160A</b> | 4 | ** | Bulk* | Bulk*  | —      | —      | .080 | 2.03 | 1.09 | 27.69 | 2110 | 9387 | 11.00 | 279.40 |

\*\*ICEA Method 4 Color Code

### 1 AWG Multi-conductor Stranded (19x14) Bare Copper

#### PVC/Nylon Insulation and PVC Jacket Constructions (See chart below for other options)

NEC: TC, NPLF  
CEC: FT4



|               |   |    |       |       |   |   |      |      |      |       |      |      |       |        |
|---------------|---|----|-------|-------|---|---|------|------|------|-------|------|------|-------|--------|
| <b>27161A</b> | 3 | ** | Bulk* | Bulk* | — | — | .080 | 2.03 | 1.15 | 29.21 | 1950 | 8675 | 11.50 | 292.10 |
|---------------|---|----|-------|-------|---|---|------|------|------|-------|------|------|-------|--------|

\*\*ICEA Method 4 Color Code

\*Bulk = Non-stocked item. Specify length, 1 piece per reel.

#### Conductor, Insulation and Jacket Options

| To Specify:              |                                        |                                       | Bare     | Tinned   | Insulation/Jacket    |
|--------------------------|----------------------------------------|---------------------------------------|----------|----------|----------------------|
| <b>12345</b>             | <b>A</b>                               | <b>S</b>                              | <b>A</b> | <b>B</b> | PVC-Nylon/PVC        |
| Start with core Part No. | add Conductor, Insulation, Jacket type | add "S" for optional Beldfoil® Shield | <b>C</b> | <b>D</b> | XLPE/PVC             |
|                          |                                        |                                       | <b>E</b> | <b>F</b> | FRPO/PVC             |
|                          |                                        |                                       | <b>G</b> | <b>H</b> | XLPE/TPE             |
|                          |                                        |                                       | <b>K</b> | <b>L</b> | TPE/TPE              |
|                          |                                        |                                       | <b>M</b> | <b>N</b> | PVC-Nylon/Oil Res II |
|                          |                                        |                                       | <b>Q</b> | <b>R</b> | XLPE/CPE             |
|                          |                                        |                                       | <b>S</b> | <b>T</b> | XLPE/Haloarrest® I   |



By:



INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

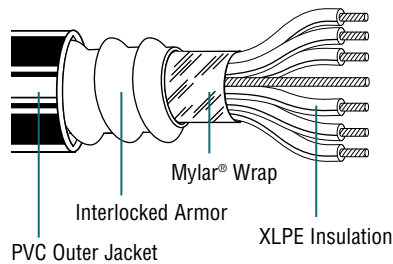
1-800-527-0010



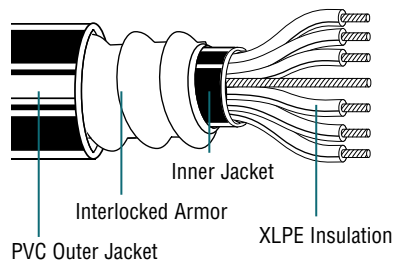
## Control Cable

### 600V Type MC Metal Clad and Teck-Style® Cables — Overview

#### Metal Clad



#### Teck-Style



#### Introduction

Belden® Metal Clad (MC) and Teck-Style cables are designed to meet demanding industrial needs by combining rugged durability and corrosion resistance with flexibility and easy handling.

MC and Teck-Style cables are available in a wide range of in-stock and custom constructions to meet the needs of pulp and paper, chemical, petroleum and other demanding industrial and resource industry environments. They are ideal for use in wet or dry areas; ventilated, non-ventilated or ladder-type cable troughs; ventilated flexible cableways; and for direct burial. Custom cables are available to meet exacting requirements.

Belden Type MC Cable is marked sunlight-resistant for cable tray use in direct burial designations, and cable constructions are listed to NEC Type MC.

Teck-Style cables are price-competitive, high-performance, UL 1569 certified cables with a flame-retardant XHHW insulated conductor and an inner PVC jacket for mechanical moisture and corrosion protection.

Mylar is a DuPont trademark.

#### Construction

Class B stranded bare copper conductors, cross-linked polyethylene insulation, bare copper ground wire, standard aluminum or optional galvanized steel interlocking armor, PVC outer jacket.

- Thermoset insulation — XHHW-2 conductors
- NEC conductor temperature 90°C dry and 90°C wet

#### Voltage Rating

14 AWG — 2 AWG: 600 Volt

#### Application

Type MC Cable is a general-purpose cable used in the pulp and paper, mining, petroleum and chemical industries as well as in commercial buildings.

MC Cable may be used under the following conditions:

- Exposed or concealed wiring in dry or wet conditions
- In ventilated, non-ventilated or ladder-type cable trays in dry or wet conditions
- On walls or beams
- Directly buried
- Class I and II Div. 2 and Class III Div. 1 and 2 hazardous locations

#### Minimum Bending Radius

12 times the overall cable diameter

#### Pulling Tensions:

The combined use of Kellems grips and pulling eyes is recommended.

#### Design Advantages

##### Insulation Properties

- High tensile strength
- Impact- and crush-resistant
- Heat-resistant
- Excellent elongation
- Moisture-resistant
- Good low temperature properties
- 90°C dry and 90°C wet

##### Electrical Properties

- High insulation resistance
- Low dielectric loss
- High dielectric strength

##### Other Features

- Corrosion-resistant
- Versatile and flexible
- Provides cost savings as conduit and ducts are not required

#### Specifications

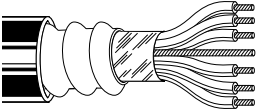
- UL 44
- UL 1569
- UL 1581 (70,000 BTU/hr) Vertical Tray Flame Test
- Meets IEEE 1202 Flame Test



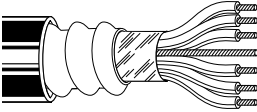
**Control Cable****600V Type MC Metal Clad Cables**

| Description | Part Number    |             | No. of Cond. | Insulation Thickness |    | Outer Jacket Thickness |    | Armor OD |    | Nominal OD |    | Minimum Bend Radius |    |
|-------------|----------------|-------------|--------------|----------------------|----|------------------------|----|----------|----|------------|----|---------------------|----|
|             | Aluminum Armor | Steel Armor |              | Inch                 | mm | Inch                   | mm | Inch     | mm | Inch       | mm | Inch                | mm |

**14 AWG Stranded (7x22) Bare Copper • 14 AWG Bare Copper Ground Wire**

| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |    |      |     |      |      |      |       |      |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|----|------|-----|------|------|------|-------|------|-------|------|--------|
|         | 27243 | 28243 | 2  | .030 | .76 | .050 | 1.27 | .48  | 12.19 | .58  | 14.73 | 7.3  | 185.42 |
|                                                                                         | 27244 | 28244 | 3  | .030 | .76 | .050 | 1.27 | .50  | 12.70 | .61  | 15.49 | 7.6  | 193.04 |
|                                                                                         | 27245 | 28245 | 4  | .030 | .76 | .050 | 1.27 | .54  | 13.72 | .64  | 16.26 | 7.9  | 200.66 |
|                                                                                         | 27246 | 28246 | 5  | .030 | .76 | .050 | 1.27 | .57  | 14.48 | .68  | 17.27 | 8.4  | 213.36 |
|                                                                                         | 27247 | 28247 | 6  | .030 | .76 | .050 | 1.27 | .62  | 15.75 | .72  | 18.29 | 8.9  | 226.06 |
|                                                                                         | 27248 | 28248 | 7  | .030 | .76 | .050 | 1.27 | .62  | 15.75 | .72  | 18.29 | 8.9  | 226.06 |
|                                                                                         | 27269 | 28269 | 8  | .030 | .76 | .050 | 1.27 | .69  | 17.53 | .80  | 20.32 | 9.4  | 238.76 |
|                                                                                         | 27535 | 28535 | 9  | .030 | .76 | .050 | 1.27 | .70  | 17.78 | .80  | 20.32 | 10.0 | 254.00 |
|                                                                                         | 27249 | 28249 | 10 | .030 | .76 | .050 | 1.27 | .75  | 19.05 | .85  | 21.59 | 10.5 | 266.70 |
|                                                                                         | 27250 | 28250 | 12 | .030 | .76 | .050 | 1.27 | .77  | 19.56 | .87  | 22.10 | 10.8 | 274.32 |
|                                                                                         | 27251 | 28251 | 15 | .030 | .76 | .050 | 1.27 | .87  | 22.10 | .98  | 24.89 | 11.6 | 294.64 |
|                                                                                         | 27969 | 28969 | 19 | .030 | .76 | .050 | 1.27 | 1.00 | 25.40 | 1.11 | 28.19 | 12.1 | 307.34 |
|                                                                                         | 27252 | 28252 | 20 | .030 | .76 | .050 | 1.27 | 1.03 | 26.16 | 1.14 | 28.96 | 13.3 | 337.82 |
|                                                                                         | 27270 | 28270 | 25 | .030 | .76 | .050 | 1.27 | 1.10 | 27.94 | 1.21 | 30.73 | 14.4 | 365.76 |
|                                                                                         | 27253 | 28253 | 30 | .030 | .76 | .050 | 1.27 | 1.18 | 29.97 | 1.29 | 32.77 | 15.1 | 383.54 |
|                                                                                         | 27292 | 28292 | 37 | .030 | .76 | .050 | 1.27 | 1.14 | 28.96 | 1.24 | 31.50 | 16.1 | 408.94 |
|                                                                                         | 27433 | 28433 | 40 | .030 | .76 | .050 | 1.27 | 1.28 | 32.51 | 1.40 | 35.56 | 16.7 | 424.18 |
|                                                                                         | 27434 | 28434 | 50 | .030 | .76 | .050 | 1.27 | 1.40 | 35.56 | 1.52 | 38.61 | 18.4 | 467.36 |

**12 AWG Stranded (7x20) Bare Copper • 12 AWG Bare Copper Ground Wire**

| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |    |      |     |      |      |      |       |      |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|----|------|-----|------|------|------|-------|------|-------|------|--------|
|       | 27254 | 28254 | 2  | .030 | .76 | .050 | 1.27 | .52  | 13.21 | .62  | 15.75 | 7.8  | 198.12 |
|                                                                                         | 27255 | 28255 | 3  | .030 | .76 | .050 | 1.27 | .54  | 13.72 | .64  | 16.26 | 8.0  | 203.20 |
|                                                                                         | 27256 | 28256 | 4  | .030 | .76 | .050 | 1.27 | .58  | 14.73 | .68  | 17.22 | 8.5  | 215.90 |
|                                                                                         | 27271 | 28271 | 5  | .030 | .76 | .050 | 1.27 | .62  | 15.75 | .72  | 18.29 | 9.1  | 231.14 |
|                                                                                         | 27272 | 28272 | 6  | .030 | .76 | .050 | 1.27 | .67  | 17.02 | .77  | 19.56 | 9.6  | 243.84 |
|                                                                                         | 27273 | 28273 | 7  | .030 | .76 | .050 | 1.27 | .67  | 17.02 | .77  | 19.56 | 9.6  | 243.84 |
|                                                                                         | 27274 | 28274 | 8  | .030 | .76 | .050 | 1.27 | .77  | 19.56 | .88  | 22.35 | 10.2 | 259.08 |
|                                                                                         | 27538 | 28538 | 9  | .030 | .76 | .050 | 1.27 | .76  | 19.30 | .86  | 21.84 | 10.8 | 274.32 |
|                                                                                         | 27275 | 28275 | 10 | .030 | .76 | .050 | 1.27 | .80  | 20.32 | .91  | 23.11 | 11.5 | 292.10 |
|                                                                                         | 27276 | 28276 | 12 | .030 | .76 | .050 | 1.27 | .84  | 21.34 | .94  | 23.88 | 11.7 | 297.18 |
|                                                                                         | 27277 | 28277 | 15 | .030 | .76 | .050 | 1.27 | .94  | 23.88 | 1.05 | 26.67 | 13.4 | 340.36 |
|                                                                                         | 27539 | 28539 | 19 | .030 | .76 | .055 | 1.40 | 1.05 | 26.67 | 1.16 | 29.46 | 14.0 | 355.60 |
|                                                                                         | 27278 | 28278 | 20 | .030 | .76 | .055 | 1.40 | 1.16 | 29.46 | 1.27 | 32.26 | 14.6 | 370.84 |
|                                                                                         | 27279 | 28279 | 25 | .030 | .76 | .055 | 1.40 | 1.26 | 32.00 | 1.37 | 34.80 | 15.8 | 401.32 |
|                                                                                         | 27280 | 28280 | 30 | .030 | .76 | .055 | 1.40 | 1.29 | 32.77 | 1.40 | 35.56 | 16.8 | 426.72 |
|                                                                                         | 27540 | 28540 | 37 | .030 | .76 | .055 | 1.40 | 1.44 | 36.58 | 1.55 | 39.37 | 17.8 | 452.12 |
|                                                                                         | 27432 | 28432 | 40 | .030 | .76 | .055 | 1.40 | 1.50 | 38.10 | 1.63 | 41.40 | 18.4 | 467.36 |

Color Code: Use ICEA Table E2 with printed numbers.

Non-stocked items. Specify length, 1 piece per reel.



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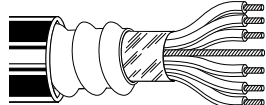
1-800-527-0010

## Control Cable

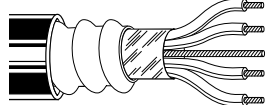
### 600V Type MC Metal Clad Cables

| Description | Part Number    |             | No. of Cond. | Insulation Thickness |    | Outer Jacket Thickness |    | Armor OD |    | Nominal OD |    | Minimum Bend Radius |    |
|-------------|----------------|-------------|--------------|----------------------|----|------------------------|----|----------|----|------------|----|---------------------|----|
|             | Aluminum Armor | Steel Armor |              | Inch                 | mm | Inch                   | mm | Inch     | mm | Inch       | mm | Inch                | mm |

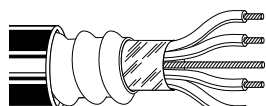
#### 10 AWG Stranded (7x18) Bare Copper • 10 AWG Bare Copper Ground Wire

| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |    |      |     |      |      |      |       |      |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|----|------|-----|------|------|------|-------|------|-------|------|--------|
|        | 27257 | 28257 | 2  | .030 | .76 | .050 | 1.27 | .56  | 14.22 | .67  | 17.02 | 8.4  | 213.36 |
|                                                                                         | 27258 | 28258 | 3  | .030 | .76 | .050 | 1.27 | .58  | 14.73 | .69  | 17.53 | 8.6  | 218.44 |
|                                                                                         | 27259 | 28259 | 4  | .030 | .76 | .050 | 1.27 | .62  | 15.75 | .74  | 18.80 | 9.2  | 233.68 |
|                                                                                         | 27281 | 28281 | 5  | .030 | .76 | .050 | 1.27 | .68  | 17.27 | .79  | 20.07 | 12.8 | 325.12 |
|                                                                                         | 27282 | 28282 | 6  | .030 | .76 | .050 | 1.27 | .74  | 18.80 | .84  | 21.34 | 10.4 | 264.16 |
|                                                                                         | 27283 | 28283 | 7  | .030 | .76 | .050 | 1.27 | .74  | 18.80 | .84  | 21.34 | 10.4 | 264.16 |
|                                                                                         | 27284 | 28284 | 8  | .030 | .76 | .050 | 1.27 | .81  | 20.57 | .92  | 23.37 | 11.2 | 284.48 |
|                                                                                         | 27541 | 28541 | 9  | .030 | .76 | .050 | 1.27 | .87  | 22.10 | .98  | 24.89 | 11.8 | 299.72 |
|                                                                                         | 27285 | 28285 | 10 | .030 | .76 | .050 | 1.27 | .89  | 22.61 | 1.03 | 26.16 | 13.3 | 337.82 |
|                                                                                         | 27286 | 28286 | 12 | .030 | .76 | .050 | 1.27 | 1.01 | 25.65 | 1.12 | 28.45 | 13.7 | 347.98 |
|                                                                                         | 27287 | 28287 | 15 | .030 | .76 | .050 | 1.27 | 1.09 | 27.69 | 1.22 | 30.99 | 14.8 | 375.92 |
|                                                                                         | 27288 | 28288 | 20 | .030 | .76 | .055 | 1.40 | 1.22 | 30.99 | 1.35 | 34.24 | 16.2 | 411.48 |
|                                                                                         | 27289 | 28289 | 25 | .030 | .76 | .055 | 1.40 | 1.32 | 33.53 | 1.47 | 37.34 | 17.8 | 452.12 |
|                                                                                         | 27290 | 28290 | 30 | .030 | .76 | .055 | 1.40 | 1.42 | 36.07 | 1.55 | 39.37 | 18.6 | 472.44 |

#### 8 AWG Stranded (7x16) Bare Copper • 10 AWG Bare Copper Ground Wire

| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |   |      |      |      |      |     |       |     |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|---|------|------|------|------|-----|-------|-----|-------|------|--------|
|       | 27291 | 28291 | 2 | .045 | 1.14 | .050 | 1.27 | .70 | 17.78 | .81 | 20.57 | 9.8  | 248.92 |
|                                                                                         | 27260 | 28260 | 3 | .045 | 1.14 | .050 | 1.27 | .72 | 18.29 | .82 | 20.83 | 10.2 | 259.08 |
|                                                                                         | 27261 | 28261 | 4 | .045 | 1.14 | .050 | 1.27 | .78 | 19.81 | .88 | 22.35 | 10.9 | 276.86 |

#### 6 AWG Stranded (7x14) Bare Copper • 8 AWG Bare Copper Ground Wire

| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |   |      |      |      |      |     |       |     |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|---|------|------|------|------|-----|-------|-----|-------|------|--------|
|      | 27293 | 28293 | 2 | .045 | 1.14 | .050 | 1.27 | .76 | 19.30 | .87 | 22.10 | 10.7 | 271.78 |
|                                                                                         | 27262 | 28262 | 3 | .045 | 1.14 | .050 | 1.27 | .80 | 20.32 | .90 | 22.86 | 11.2 | 284.48 |
|                                                                                         | 27263 | 28263 | 4 | .045 | 1.14 | .050 | 1.27 | .87 | 22.10 | .97 | 24.64 | 12.1 | 307.34 |

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.  
For sizes 8 and larger, use ICEA Method 4 with printed numbers.

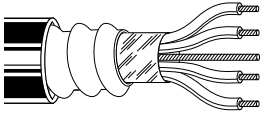
Non-stocked items. Specify length, 1 piece per reel.

**Control Cable****600V Type MC Metal Clad Cables**

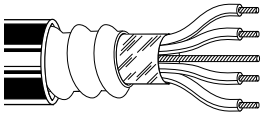
| Description | Part Number    |             | No. of Cond. | Insulation Thickness |    | Outer Jacket Thickness |    | Armor OD |    | Nominal OD |    | Minimum Bend Radius |    |
|-------------|----------------|-------------|--------------|----------------------|----|------------------------|----|----------|----|------------|----|---------------------|----|
|             | Aluminum Armor | Steel Armor |              | Inch                 | mm | Inch                   | mm | Inch     | mm | Inch       | mm | Inch                | mm |

**4 AWG** Stranded (7x12) Bare Copper • 8 AWG Bare Copper Ground Wire

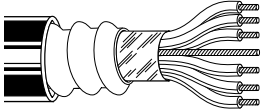
| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |   |      |      |      |      |      |       |      |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|---|------|------|------|------|------|-------|------|-------|------|--------|
| NEC: MC                                                                                 | 27264 | 28264 | 3 | .045 | 1.14 | .050 | 1.27 | .90  | 22.86 | 1.00 | 25.40 | 13.1 | 332.74 |
|                                                                                         | 27265 | 28265 | 4 | .045 | 1.14 | .050 | 1.27 | 1.97 | 50.04 | 1.08 | 27.43 | 14.2 | 360.68 |

**2 AWG** Stranded (7x10) Bare Copper • 6 AWG Bare Copper Ground Wire

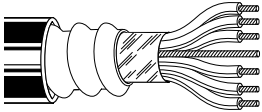
| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |   |      |      |      |      |      |       |      |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|---|------|------|------|------|------|-------|------|-------|------|--------|
| NEC: MC                                                                                 | 27267 | 28267 | 3 | .045 | 1.14 | .050 | 1.27 | 1.02 | 25.78 | 1.13 | 28.58 | 14.7 | 373.38 |
|                                                                                         | 27268 | 28268 | 4 | .045 | 1.14 | .050 | 1.27 | 1.11 | 28.27 | 1.22 | 30.99 | 15.9 | 403.86 |

**Composite 14 AWG** (7x22) and **12 AWG** (7x20) Stranded Bare Copper • 12 AWG Bare Copper Ground Wire

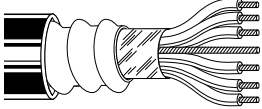
| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |       |      |     |      |      |     |       |     |       |     |        |
|-----------------------------------------------------------------------------------------|-------|-------|-------|------|-----|------|------|-----|-------|-----|-------|-----|--------|
| NEC: MC                                                                                 | 27428 | 28428 | 3c/14 | .030 | .76 | .050 | 1.27 | .70 | 17.78 | .81 | 20.57 | 9.7 | 246.38 |
|                                                                                         |       |       | 3c/12 | .030 | .76 |      |      |     |       |     |       |     |        |

**Composite 14 AWG** (7x22) and **10 AWG** (7x18) Stranded Bare Copper • 10 AWG Bare Copper Ground Wire

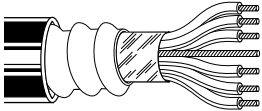
| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |       |      |     |      |      |     |       |     |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|-------|------|-----|------|------|-----|-------|-----|-------|------|--------|
| NEC: MC                                                                                 | 27429 | 28429 | 3c/14 | .030 | .76 | .050 | 1.27 | .74 | 18.80 | .85 | 21.39 | 10.2 | 259.08 |
|                                                                                         |       |       | 3c/10 | .030 | .76 |      |      |     |       |     |       |      |        |

**Composite 14 AWG** (7x22) and **8 AWG** (7x16) Stranded Bare Copper • 10 AWG Bare Copper Ground Wire

| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |       |      |      |      |      |     |       |     |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|-------|------|------|------|------|-----|-------|-----|-------|------|--------|
| NEC: MC                                                                                 | 27430 | 28430 | 3c/14 | .030 | .76  | .050 | 1.27 | .83 | 21.08 | .94 | 23.88 | 11.2 | 284.48 |
|                                                                                         |       |       | 3c/8  | .045 | 1.14 |      |      |     |       |     |       |      |        |

**Composite 14 AWG** (7x22) and **6 AWG** (7x14) Stranded Bare Copper • 8 AWG Bare Copper Ground Wire

| Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket |       |       |       |      |      |      |      |     |       |      |       |      |        |
|-----------------------------------------------------------------------------------------|-------|-------|-------|------|------|------|------|-----|-------|------|-------|------|--------|
| NEC: MC                                                                                 | 27431 | 28431 | 3c/14 | .030 | .76  | .050 | 1.27 | .89 | 22.61 | 1.01 | 25.65 | 12.0 | 304.80 |
|                                                                                         |       |       | 3c/6  | .045 | 1.14 |      |      |     |       |      |       |      |        |



Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.

For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Specify length, 1 piece per reel.



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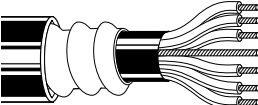
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1-800-527-0010

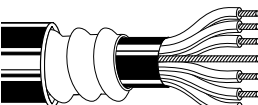
**Control Cable****600V Type MC Teck-Style® Cables**

| Description | Part Number    |             | No. of Cond. | Insulation Thickness |    | Inner Jacket OD |    | Armor OD |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------------|-------------|--------------|----------------------|----|-----------------|----|----------|----|------------|----|----------------------|---|---------------------|----|
|             | Aluminum Armor | Steel Armor |              | Inch                 | mm | Inch            | mm | Inch     | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

**14 AWG Stranded (7x22) Bare Copper • 14 AWG Bare Copper Ground Wire**

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |    |      |     |      |       |      |       |      |       |      |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|----|------|-----|------|-------|------|-------|------|-------|------|------|------|-----|
| NEC: MC<br>         | 27840 | 28840 | 2  | .030 | .76 | .37  | 9.40  | .56  | 14.22 | .67  | 17.02 | 66   | 294  | 8.0  | 203 |
|                                                                                                      | 27841 | 28841 | 3  | .030 | .76 | .39  | 9.91  | .58  | 14.73 | .69  | 17.53 | 98   | 436  | 8.3  | 211 |
|                                                                                                      | 27842 | 28842 | 4  | .030 | .76 | .43  | 10.92 | .62  | 15.75 | .73  | 18.54 | 131  | 583  | 8.7  | 221 |
|                                                                                                      | 27843 | 28843 | 5  | .030 | .76 | .47  | 11.94 | .66  | 16.76 | .77  | 19.56 | 164  | 730  | 9.2  | 234 |
|                                                                                                      | 27844 | 28844 | 6  | .030 | .76 | .51  | 12.95 | .70  | 17.78 | .81  | 20.57 | 191  | 850  | 9.7  | 246 |
|                                                                                                      | 27845 | 28845 | 7  | .030 | .76 | .51  | 12.95 | .70  | 17.78 | .81  | 20.57 | 225  | 1001 | 9.7  | 246 |
|                                                                                                      | 27846 | 28846 | 8  | .030 | .76 | .58  | 14.73 | .77  | 19.56 | .88  | 22.35 | 260  | 1157 | 10.5 | 267 |
|                                                                                                      | 27847 | 28847 | 10 | .030 | .76 | .67  | 17.02 | .93  | 23.62 | 1.04 | 26.42 | 321  | 1428 | 12.5 | 318 |
|                                                                                                      | 27848 | 28848 | 12 | .030 | .76 | .69  | 17.53 | .95  | 24.13 | 1.06 | 26.92 | 388  | 1726 | 12.7 | 323 |
|                                                                                                      | 27849 | 28849 | 15 | .030 | .76 | .77  | 19.56 | 1.03 | 26.16 | 1.14 | 28.96 | 481  | 2140 | 13.7 | 348 |
|                                                                                                      | 27850 | 28850 | 20 | .030 | .76 | .86  | 21.84 | 1.12 | 28.45 | 1.23 | 31.24 | 649  | 2887 | 15.3 | 389 |
|                                                                                                      | 27851 | 28851 | 25 | .030 | .76 | .92  | 23.37 | 1.18 | 29.97 | 1.30 | 33.02 | 810  | 3603 | 16.3 | 414 |
|                                                                                                      | 27852 | 28852 | 30 | .030 | .76 | .98  | 24.89 | 1.24 | 31.50 | 1.36 | 34.54 | 975  | 4337 | 17.0 | 432 |
|                                                                                                      | 27885 | 28885 | 40 | .030 | .76 | 1.09 | 27.69 | 1.35 | 34.29 | 1.47 | 37.34 | 1301 | 5788 | 18.5 | 470 |
|                                                                                                      | 27886 | 28886 | 50 | .030 | .76 | 1.19 | 30.23 | 1.45 | 36.83 | 1.57 | 39.88 | 1630 | 7251 | 19.8 | 503 |

**12 AWG Stranded (7x20) Bare Copper • 12 AWG Bare Copper Ground Wire**

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |    |      |     |      |       |      |       |      |       |      |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|----|------|-----|------|-------|------|-------|------|-------|------|------|------|-----|
| NEC: MC<br>       | 27853 | 28853 | 2  | .030 | .76 | .41  | 10.41 | .60  | 15.24 | .71  | 18.03 | 104  | 463  | 8.5  | 206 |
|                                                                                                      | 27854 | 28854 | 3  | .030 | .76 | .43  | 10.92 | .62  | 15.75 | .73  | 18.54 | 156  | 694  | 8.8  | 224 |
|                                                                                                      | 27855 | 28855 | 4  | .030 | .76 | .47  | 11.94 | .66  | 16.76 | .77  | 19.56 | 207  | 921  | 9.2  | 234 |
|                                                                                                      | 27856 | 28856 | 5  | .030 | .76 | .52  | 13.21 | .71  | 18.03 | .82  | 20.83 | 260  | 1157 | 9.8  | 249 |
|                                                                                                      | 27857 | 28857 | 6  | .030 | .76 | .59  | 14.99 | .78  | 19.81 | .89  | 22.61 | 310  | 1379 | 10.7 | 272 |
|                                                                                                      | 27858 | 28858 | 7  | .030 | .76 | .59  | 14.99 | .78  | 19.81 | .89  | 22.61 | 361  | 1606 | 10.7 | 272 |
|                                                                                                      | 27859 | 28859 | 8  | .030 | .76 | .64  | 16.26 | .83  | 21.08 | .94  | 23.88 | 415  | 1846 | 11.3 | 287 |
|                                                                                                      | 27860 | 28860 | 10 | .030 | .76 | .75  | 19.05 | 1.01 | 25.65 | 1.12 | 28.45 | 520  | 2313 | 13.4 | 340 |
|                                                                                                      | 27861 | 28861 | 12 | .030 | .76 | .77  | 19.56 | 1.03 | 26.16 | 1.14 | 28.96 | 619  | 2754 | 13.7 | 348 |
|                                                                                                      | 27862 | 28862 | 15 | .030 | .76 | .87  | 22.10 | 1.13 | 28.70 | 1.25 | 31.75 | 718  | 3194 | 15.0 | 381 |
|                                                                                                      | 27863 | 28863 | 20 | .030 | .76 | .96  | 24.38 | 1.22 | 30.99 | 1.33 | 32.78 | 1040 | 4627 | 15.9 | 404 |
|                                                                                                      | 27864 | 28864 | 25 | .030 | .76 | 1.04 | 26.42 | 1.30 | 33.02 | 1.42 | 36.07 | 1301 | 5788 | 17.0 | 432 |
|                                                                                                      | 27865 | 28865 | 30 | .030 | .76 | 1.15 | 29.21 | 1.41 | 35.81 | 1.53 | 38.86 | 1560 | 6940 | 18.3 | 465 |
|                                                                                                      | 27887 | 28887 | 40 | .030 | .76 | 1.20 | 30.48 | 1.54 | 39.12 | 1.67 | 42.42 | 2020 | 8986 | 20.0 | 508 |

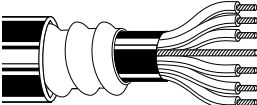
Color Code: Use ICEA Table E2 with printed numbers.

Non-stocked items. Specify length, 1 piece per reel.

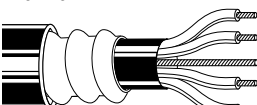
**Control Cable****600V Type MC Teck-Style® Cables**

| Description | Part Number    |             | No. of Cond. | Insulation Thickness |    | Inner Jacket OD |    | Armor OD |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------------|-------------|--------------|----------------------|----|-----------------|----|----------|----|------------|----|----------------------|---|---------------------|----|
|             | Aluminum Armor | Steel Armor |              | Inch                 | mm | Inch            | mm | Inch     | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

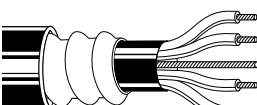
**10 AWG Stranded (7x18) Bare Copper • 10 AWG Bare Copper Ground Wire**

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |    |      |     |      |       |      |       |      |       |      |       |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|----|------|-----|------|-------|------|-------|------|-------|------|-------|------|-----|
|                      | 27866 | 28866 | 2  | .030 | .76 | .46  | 11.68 | .65  | 16.51 | .74  | 18.80 | 166  | 738   | 9.1  | 231 |
|                                                                                                      | 27867 | 28867 | 3  | .030 | .76 | .48  | 12.19 | .67  | 17.02 | .77  | 19.56 | 249  | 1108  | 9.4  | 239 |
|                                                                                                      | 27868 | 28868 | 4  | .030 | .76 | .56  | 14.22 | .75  | 19.05 | .84  | 21.34 | 330  | 1468  | 10.3 | 262 |
|                                                                                                      | 27869 | 28869 | 5  | .030 | .76 | .67  | 17.02 | .86  | 21.84 | .96  | 24.38 | 415  | 1846  | 11.6 | 295 |
|                                                                                                      | 27870 | 28870 | 6  | .030 | .76 | .67  | 17.02 | .86  | 21.84 | .96  | 24.38 | 491  | 2184  | 11.6 | 295 |
|                                                                                                      | 27877 | 28877 | 7  | .030 | .76 | .70  | 17.78 | .90  | 22.86 | 1.00 | 25.40 | 560  | 2491  | 12.1 | 307 |
|                                                                                                      | 27878 | 28878 | 8  | .030 | .76 | .75  | 19.05 | .95  | 24.13 | 1.05 | 26.67 | 640  | 2847  | 12.7 | 323 |
|                                                                                                      | 27879 | 28879 | 10 | .030 | .76 | .78  | 19.81 | 1.04 | 26.42 | 1.15 | 29.21 | 801  | 3563  | 13.8 | 351 |
|                                                                                                      | 27880 | 28880 | 12 | .030 | .76 | .89  | 22.61 | 1.15 | 29.21 | 1.26 | 32.00 | 960  | 4271  | 15.1 | 384 |
|                                                                                                      | 27881 | 28881 | 15 | .030 | .76 | .93  | 23.62 | 1.19 | 30.23 | 1.30 | 33.02 | 1195 | 5316  | 15.6 | 396 |
|                                                                                                      | 27882 | 28882 | 20 | .030 | .76 | 1.06 | 26.92 | 1.32 | 33.53 | 1.44 | 36.58 | 1600 | 7118  | 17.3 | 439 |
|                                                                                                      | 27883 | 28883 | 25 | .030 | .76 | 1.12 | 28.45 | 1.44 | 36.58 | 1.58 | 40.13 | 1990 | 8853  | 19.0 | 483 |
|                                                                                                      | 27884 | 28884 | 30 | .030 | .76 | 1.28 | 32.51 | 1.54 | 39.12 | 1.67 | 42.42 | 2355 | 10477 | 20.0 | 508 |

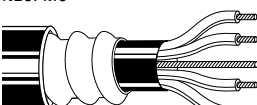
**8 AWG Stranded (7x16) Bare Copper • 10 AWG Bare Copper Ground Wire**

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |   |      |      |     |       |     |       |      |       |     |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|---|------|------|-----|-------|-----|-------|------|-------|-----|------|------|-----|
|                     | 27871 | 28871 | 2 | .045 | 1.14 | .59 | 14.99 | .78 | 19.81 | .89  | 22.61 | 264 | 1174 | 10.7 | 272 |
|                                                                                                      | 27872 | 28872 | 3 | .045 | 1.14 | .62 | 15.75 | .81 | 20.57 | .91  | 23.11 | 396 | 1762 | 10.9 | 277 |
|                                                                                                      | 27873 | 28873 | 4 | .045 | 1.14 | .68 | 17.27 | .94 | 23.88 | 1.05 | 26.67 | 528 | 2349 | 12.6 | 320 |

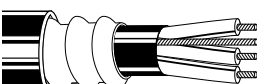
**6 AWG Stranded (7x14) Bare Copper • 8 AWG Bare Copper Ground Wire**

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |   |      |      |     |       |      |       |      |       |     |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|---|------|------|-----|-------|------|-------|------|-------|-----|------|------|-----|
|                    | 27874 | 28874 | 2 | .060 | 1.52 | .71 | 18.03 | .97  | 24.64 | 1.08 | 27.43 | 420 | 1868 | 13.0 | 330 |
|                                                                                                      | 27875 | 28875 | 3 | .060 | 1.52 | .76 | 19.30 | 1.02 | 25.91 | 1.13 | 28.70 | 630 | 2803 | 13.5 | 343 |
|                                                                                                      | 27876 | 28876 | 4 | .060 | 1.52 | .88 | 23.35 | 1.14 | 28.96 | 1.25 | 31.75 | 840 | 3737 | 15.0 | 381 |

**4 AWG Stranded (7x12) Bare Copper • 8 AWG Bare Copper Ground Wire**

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |   |      |      |     |       |      |       |      |       |      |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|---|------|------|-----|-------|------|-------|------|-------|------|------|------|-----|
|                    | 27894 | 28894 | 3 | .060 | 1.52 | .91 | 23.11 | 1.17 | 29.72 | 1.29 | 32.77 | 1002 | 4458 | 15.5 | 394 |
|                                                                                                      | 27895 | 28895 | 4 | .060 | 1.52 | .99 | 25.15 | 1.25 | 31.75 | 1.37 | 34.80 | 1335 | 5939 | 16.4 | 417 |

**3 AWG Stranded (7x11) Bare Copper • 6 AWG Bare Copper Ground Wire**

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |   |      |      |     |       |      |       |      |       |      |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|---|------|------|-----|-------|------|-------|------|-------|------|------|------|-----|
|                    | 27896 | 28896 | 3 | .060 | 1.52 | .96 | 24.38 | 1.22 | 30.99 | 1.33 | 33.78 | 1263 | 5619 | 16.0 | 406 |

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.

For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Specify length, 1 piece per reel.



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1-800-527-0010

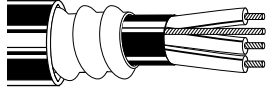
## Control Cable

### 600V Type MC Teck-Style® Cables

| Description | Part Number    |             | No. of Cond. | Insulation Thickness |    | Inner Jacket OD |    | Armor OD |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------------|-------------|--------------|----------------------|----|-----------------|----|----------|----|------------|----|----------------------|---|---------------------|----|
|             | Aluminum Armor | Steel Armor |              | Inch                 | mm | Inch            | mm | Inch     | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

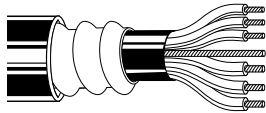
#### 2 AWG Stranded (7x10) Bare Copper • 6 AWG Bare Copper Ground Wire

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |   |      |      |      |       |      |       |      |       |      |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|---|------|------|------|-------|------|-------|------|-------|------|------|------|-----|
| NEC: MC                                                                                              | 27888 | 28888 | 3 | .060 | 1.52 | 1.08 | 27.43 | 1.28 | 32.51 | 1.40 | 35.56 | 1593 | 7087 | 16.8 | 427 |
|                                                                                                      | 27889 | 28889 | 4 | .060 | 1.52 | 1.12 | 28.45 | 1.38 | 35.05 | 1.50 | 38.10 | 2124 | 9449 | 18.0 | 457 |



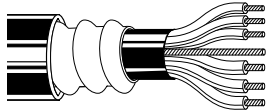
#### Composite 14 AWG (7x22) and 12 AWG (7x20) • 12 AWG Bare Copper Ground Wire

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |       |      |     |     |       |     |       |     |       |     |     |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|-------|------|-----|-----|-------|-----|-------|-----|-------|-----|-----|------|-----|
| NEC: MC                                                                                              | 27890 | 28890 | 3c/14 | .030 | .76 | .56 | 14.22 | .75 | 19.05 | .86 | 21.84 | 202 | 899 | 10.3 | 262 |
|                                                                                                      |       |       | 3c/12 | .030 | .76 |     |       |     |       |     |       |     |     |      |     |



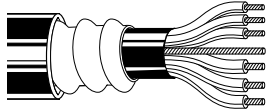
#### Composite 14 AWG (7x22) and 10 AWG (7x18) • 10 AWG Bare Copper Ground Wire

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |       |      |     |     |       |     |       |     |       |     |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|-------|------|-----|-----|-------|-----|-------|-----|-------|-----|------|------|-----|
| NEC: MC                                                                                              | 27891 | 28891 | 3c/14 | .030 | .76 | .61 | 15.49 | .80 | 20.32 | .91 | 23.11 | 305 | 1357 | 10.9 | 277 |
|                                                                                                      |       |       | 3c/10 | .030 | .76 |     |       |     |       |     |       |     |      |      |     |



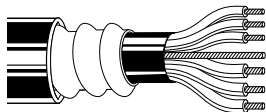
#### Composite 14 AWG (7x22) and 8 AWG (7x16) • 10 AWG Bare Copper Ground Wire

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |       |      |      |     |       |     |       |      |       |     |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|-------|------|------|-----|-------|-----|-------|------|-------|-----|------|------|-----|
| NEC: MC                                                                                              | 27892 | 28892 | 3c/14 | .045 | 1.14 | .70 | 17.78 | .96 | 24.38 | 1.07 | 27.18 | 435 | 1935 | 12.8 | 325 |
|                                                                                                      |       |       | 3c/8  | .030 | .76  |     |       |     |       |      |       |     |      |      |     |



#### Composite 14 AWG (7x22) and 6 AWG (7x14) • 8 AWG Bare Copper Ground Wire

| Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket |       |       |       |      |      |     |       |      |       |      |       |     |      |      |     |
|------------------------------------------------------------------------------------------------------|-------|-------|-------|------|------|-----|-------|------|-------|------|-------|-----|------|------|-----|
| NEC: MC                                                                                              | 27893 | 28893 | 3c/14 | .060 | 1.52 | .90 | 22.86 | 1.15 | 29.21 | 1.26 | 32.00 | 655 | 2914 | 15.1 | 384 |
|                                                                                                      |       |       | 3c/6  | .030 | .76  |     |       |      |       |      |       |     |      |      |     |



Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.

For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Specify length, 1 piece per reel.

# CSA Instrumentation Cable

## 300V CIC

Belden offers a complete line of high performance and high quality CSA certified instrumentation cables (300V/600V and CIC/ACIC). These cables are designed to minimize noise and signal interference to deliver clean signals in harsh petrochemical, pulp and paper and process industry environments, as well as for use in general manufacturing operations.

Contact Belden Customer Service for other options:

- 150V
- XLPE insulation
- Thermocouple alloy conductors
- Overall foil shield only
- Other pair and triad counts

| Description                                                                                                                                                                                                                                 | Part Number  | No. of Pairs or Triads | Cable Weight   |       | Jacket Thickness |      | Nominal OD |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|----------------|-------|------------------|------|------------|-------|
|                                                                                                                                                                                                                                             |              |                        | Lbs. /1000 Ft. | kg/km | Inch             | mm   | Inch       | mm    |
| <b>20 AWG Pairs</b> Stranded (7x28) Tinned Copper • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires                                                                                                 |              |                        |                |       |                  |      |            |       |
| <b>PVC Insulation • Black PVC Jacket</b> (Color Code: Black and White with Numbers)                                                                                                                                                         |              |                        |                |       |                  |      |            |       |
|  <p>CSA C22.2#239, Type CIC<br/>CSA C22.2 #0.3 Clause 4.31 Low Acid Test<br/>FT4 Flame Test</p> <p>-25°C Installed<br/>-40°C to +105°C (Dry) (75°C Wet)</p> | <b>22671</b> | 1                      | 71             | 48    | .045             | 1.14 | .260       | 6.60  |
|                                                                                                                                                                                                                                             | <b>22638</b> | 2                      | 143            | 96    | .045             | 1.14 | .400       | 10.16 |
|                                                                                                                                                                                                                                             | <b>22639</b> | 4                      | 217            | 146   | .045             | 1.14 | .460       | 11.68 |
|                                                                                                                                                                                                                                             | <b>22640</b> | 6                      | 320            | 215   | .045             | 1.14 | .570       | 14.48 |
|                                                                                                                                                                                                                                             | <b>22641</b> | 8                      | 405            | 272   | .060             | 1.52 | .610       | 15.49 |
|                                                                                                                                                                                                                                             | <b>22676</b> | 12                     | 573            | 385   | .060             | 1.52 | .730       | 18.54 |
|                                                                                                                                                                                                                                             | <b>22643</b> | 16                     | 722            | 485   | .060             | 1.52 | .810       | 20.57 |
|                                                                                                                                                                                                                                             | <b>22647</b> | 24                     | 1103           | 741   | .080             | 2.03 | 1.040      | 26.42 |
|                                                                                                                                                                                                                                             | <b>22670</b> | 36                     | 1548           | 1040  | .080             | 2.03 | 1.190      | 30.23 |

**20 AWG Triads** Stranded (7x28) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

|                                                                                                                                                                                                                                               |       |    |      |     |      |      |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|------|-----|------|------|-------|-------|
| <b>PVC Insulation • Black PVC Jacket</b> (Color Code: Black, White and Red with Numbers)                                                                                                                                                      |       |    |      |     |      |      |       |       |
|  <p>CSA C22.2#239, Type CIC<br/>CSA C22.2 #0.3 Clause 4.31 Low Acid Test<br/>FT4 Flame Test</p> <p>-25°C Installed<br/>-40°C to +105°C (Dry) (75°C Wet)</p> | 22660 | 1  | 89   | 60  | .045 | 1.14 | .270  | 6.86  |
|                                                                                                                                                                                                                                               | 22662 | 2  | 177  | 119 | .045 | 1.14 | .420  | 10.67 |
|                                                                                                                                                                                                                                               | 22663 | 4  | 277  | 186 | .045 | 1.14 | .490  | 12.47 |
|                                                                                                                                                                                                                                               | 22672 | 8  | 521  | 350 | .060 | 1.52 | .650  | 16.51 |
|                                                                                                                                                                                                                                               | 22673 | 16 | 1000 | 672 | .080 | 2.03 | .910  | 23.11 |
|                                                                                                                                                                                                                                               | 22674 | 24 | 1414 | 950 | .080 | 2.03 | 1.110 | 28.19 |
|                                                                                                                                                                                                                                               |       |    |      |     |      |      |       |       |
|                                                                                                                                                                                                                                               |       |    |      |     |      |      |       |       |

**18 AWG Pairs** Stranded (7x26) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

|                                                                                                                                                                                                                                               |       |    |      |      |      |      |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|------|------|------|------|-------|-------|
| <b>PVC Insulation • Black PVC Jacket</b> (Color Code: Black and White with Numbers)                                                                                                                                                           |       |    |      |      |      |      |       |       |
|  <p>CSA C22.2#239, Type CIC<br/>CSA C22.2 #0.3 Clause 4.31 Low Acid Test<br/>FT4 Flame Test</p> <p>-25°C Installed<br/>-40°C to +105°C (Dry) (75°C Wet)</p> | 22645 | 1  | 97   | 65   | .045 | 1.14 | .300  | 7.62  |
|                                                                                                                                                                                                                                               | 22633 | 2  | 196  | 132  | .045 | 1.14 | .480  | 12.45 |
|                                                                                                                                                                                                                                               | 22648 | 4  | 338  | 227  | .045 | 1.14 | .580  | 14.73 |
|                                                                                                                                                                                                                                               | 22634 | 6  | 473  | 318  | .060 | 1.52 | .670  | 17.02 |
|                                                                                                                                                                                                                                               | 22635 | 8  | 570  | 283  | .060 | 1.52 | .730  | 18.54 |
|                                                                                                                                                                                                                                               | 22636 | 12 | 869  | 584  | .060 | 1.52 | .920  | 23.37 |
|                                                                                                                                                                                                                                               | 22654 | 16 | 1095 | 736  | .080 | 2.03 | 1.020 | 25.91 |
|                                                                                                                                                                                                                                               | 22637 | 24 | 1552 | 1045 | .080 | 2.03 | 1.260 | 32.00 |

**18 AWG Triads** Stranded (7x26) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

|                                                                                                                                                                                                                                               |       |    |      |      |      |      |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|------|------|------|------|-------|-------|
| <b>PVC Insulation • Black PVC Jacket</b> (Color Code: Black, White and Red with Numbers)                                                                                                                                                      |       |    |      |      |      |      |       |       |
|  <p>CSA C22.2#239, Type CIC<br/>CSA C22.2 #0.3 Clause 4.31 Low Acid Test<br/>FT4 Flame Test</p> <p>-25°C Installed<br/>-40°C to +105°C (Dry) (75°C Wet)</p> | 22677 | 1  | 121  | 81   | .045 | 1.14 | .303  | 7.70  |
|                                                                                                                                                                                                                                               | 22678 | 2  | 256  | 172  | .045 | 1.14 | .480  | 12.19 |
|                                                                                                                                                                                                                                               | 22679 | 4  | 427  | 287  | .060 | 1.52 | .620  | 15.75 |
|                                                                                                                                                                                                                                               | 22680 | 8  | 597  | 401  | .060 | 1.52 | .710  | 18.03 |
|                                                                                                                                                                                                                                               | 22681 | 16 | 740  | 497  | .060 | 1.52 | .770  | 19.56 |
|                                                                                                                                                                                                                                               | 22682 | 24 | 1130 | 759  | .080 | 2.03 | .980  | 24.89 |
|                                                                                                                                                                                                                                               | 22683 | 16 | 1436 | 965  | .080 | 2.03 | 1.090 | 27.69 |
|                                                                                                                                                                                                                                               | 22684 | 24 | 2049 | 1377 | .080 | 2.03 | 1.340 | 34.04 |



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## CSA Instrumentation Cable

### 300V CIC

| Description | Part Number | No. of Pairs or Triads | Cable Weight  |       | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|------------------------|---------------|-------|------------------|----|------------|----|
|             |             |                        | Lbs./1000 Ft. | kg/km | Inch             | mm | Inch       | mm |

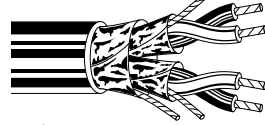
**16 AWG Pairs** Stranded (7x24) Tinned Copper • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

**PVC Insulation • Black PVC Jacket** (Color Code: Black and White with Numbers)

CSA C22.2#239, Type CIC

CSA C22.2 #0.3 Clause 4.31 Low Acid Test

FT4 Flame Test



-25°C Installed

-40°C to +105°C (Dry) (75°C Wet)

|       |    |      |      |      |      |       |       |
|-------|----|------|------|------|------|-------|-------|
| 22646 | 1  | 122  | 82   | .045 | 1.14 | .320  | 8.13  |
| 22628 | 2  | 262  | 176  | .045 | 1.14 | .520  | 13.21 |
| 22629 | 4  | 438  | 294  | .060 | 1.52 | .628  | 15.95 |
| 22630 | 6  | 603  | 405  | .060 | 1.52 | .740  | 18.80 |
| 22631 | 8  | 752  | 505  | .060 | 1.52 | .800  | 20.32 |
| 22632 | 12 | 350  | 771  | .080 | 2.03 | 1.010 | 25.65 |
| 22685 | 16 | 1461 | 982  | .080 | 2.03 | 1.120 | 28.45 |
| 22686 | 24 | 2091 | 1405 | .080 | 2.03 | 1.380 | 35.05 |

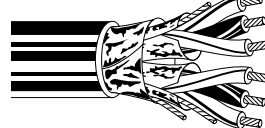
**16 AWG Triads** Stranded (7x24) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

**PVC Insulation • Black PVC Jacket** (Color Code: Black, White and Red with Numbers)

CSA C22.2#239, Type CIC

CSA C22.2 #0.3 Clause 4.31 Low Acid Test

FT4 Flame Test



-25°C Installed

-40°C to +105°C (Dry) (75°C Wet)

|       |    |      |      |      |      |       |       |
|-------|----|------|------|------|------|-------|-------|
| 22603 | 1  | 152  | 102  | .045 | 1.14 | .329  | 8.36  |
| 22687 | 2  | 344  | 231  | .045 | 1.14 | .580  | 14.73 |
| 22675 | 4  | 564  | 379  | .060 | 1.52 | .670  | 17.02 |
| 22688 | 6  | 819  | 550  | .060 | 1.52 | .780  | 19.81 |
| 22689 | 8  | 1063 | 714  | .080 | 2.03 | .940  | 23.90 |
| 22690 | 12 | 1524 | 1024 | .080 | 2.03 | 1.080 | 27.43 |

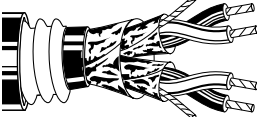


# CSA Instrumentation Cable

## 300V ACIC Armored Cables

| Description | Part No.       |             | No. of Pairs/Triads | Cable Weight Aluminum Armor |       | Cable Weight Steel Armor |       | Insulation Thickness |    | Nominal OD Inner Jacket |    | Nominal OD Outer Jacket |    |
|-------------|----------------|-------------|---------------------|-----------------------------|-------|--------------------------|-------|----------------------|----|-------------------------|----|-------------------------|----|
|             | Aluminum Armor | Steel Armor |                     | Lbs./1000 Ft.               | kg/km | Lbs./1000 Ft.            | kg/km | Inch                 | mm | Inch                    | mm | Inch                    | mm |

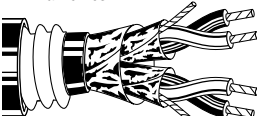
**20 AWG Pairs** Stranded (7x28) Tinned Copper • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

| Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket                                                                                                                       |       |       |    |      |      |      |      |      |     |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----|------|------|------|------|------|-----|------|------|------|------|
| CSA C22.2#239, Type ACIC<br>CSA C22.2#174, HLBCD<br>CSA C22.2#0.3, Clause 4.31<br>Low Acid Test<br>FT4 Flame Test<br> | 23543 | 26530 | 1  | 140  | 208  | 230  | 342  | .020 | .51 | .26  | 6.6  | .56  | 14.2 |
|                                                                                                                                                                                                       | 23534 | 26531 | 2  | 206  | 306  | 325  | 483  | .020 | .51 | .40  | 10.2 | .70  | 17.8 |
|                                                                                                                                                                                                       | 23514 | 26532 | 4  | 255  | 379  | 390  | 580  | .020 | .51 | .46  | 11.7 | .76  | 19.3 |
|                                                                                                                                                                                                       | 23513 | 26533 | 6  | 297  | 441  | 494  | 734  | .020 | .51 | .57  | 14.5 | .88  | 22.4 |
|                                                                                                                                                                                                       | 23503 | 26534 | 8  | 361  | 537  | 565  | 840  | .020 | .51 | .63  | 16.0 | .92  | 23.5 |
|                                                                                                                                                                                                       | 23521 | 26535 | 12 | 480  | 713  | 682  | 1010 | .020 | .51 | .75  | 19.1 | 1.06 | 26.9 |
|                                                                                                                                                                                                       | 23532 | 26536 | 16 | 600  | 891  | 900  | 1337 | .020 | .51 | .79  | 20.1 | 1.16 | 29.5 |
|                                                                                                                                                                                                       | 23506 | 26537 | 24 | 800  | 1188 | 1175 | 1745 | .020 | .51 | 1.05 | 26.7 | 1.42 | 36.1 |
| -25°C Installed<br>-40°C to +105°C (Dry) (75°C Wet)                                                                                                                                                   | 23544 | 26538 | 36 | 1050 | 1559 | 1500 | 2228 | .020 | .51 | 1.14 | 29.0 | 1.57 | 39.8 |
|                                                                                                                                                                                                       | 23575 | 26546 | 50 | 1468 | 2180 | 2010 | 2985 | .020 | .51 | 1.37 | 34.8 | 1.75 | 44.5 |

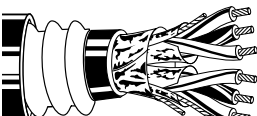
**20 AWG Triads** Stranded (7x28) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

| Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket                                                                                                                        |       |       |    |     |      |      |      |      |     |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----|-----|------|------|------|------|-----|------|------|------|------|
| CSA C22.2#239, Type ACIC<br>CSA C22.2#174, HLBCD<br>CSA C22.2#0.3, Clause 4.31<br>Low Acid Test<br>FT4 Flame Test<br> | 23545 | 26539 | 1  | 139 | 207  | 235  | 350  | .020 | .51 | .27  | 6.9  | .57  | 14.5 |
|                                                                                                                                                                                                        | 23546 | 26540 | 2  | 210 | 312  | 345  | 513  | .020 | .51 | .43  | 10.9 | .73  | 18.5 |
|                                                                                                                                                                                                        | 23547 | 26541 | 4  | 270 | 401  | 425  | 631  | .020 | .51 | .50  | 12.7 | .80  | 20.3 |
|                                                                                                                                                                                                        | 23548 | 26542 | 8  | 444 | 660  | 650  | 965  | .020 | .51 | .69  | 17.5 | 1.00 | 25.4 |
|                                                                                                                                                                                                        | 23571 | 26553 | 12 | 632 | 940  | 970  | 1440 | .020 | .51 | .82  | 20.8 | 1.24 | 31.5 |
|                                                                                                                                                                                                        | 23549 | 26543 | 16 | 740 | 1100 | 1090 | 1619 | .020 | .51 | .91  | 23.1 | 1.28 | 32.5 |
|                                                                                                                                                                                                        | 23550 | 26544 | 24 | 990 | 1410 | 1360 | 2020 | .020 | .51 | 1.11 | 28.2 | 1.48 | 37.6 |
|                                                                                                                                                                                                        |       |       |    |     |      |      |      |      |     |      |      |      |      |
| -25°C Installed<br>-40°C to +105°C (Dry) (75°C Wet)                                                                                                                                                    |       |       |    |     |      |      |      |      |     |      |      |      |      |
|                                                                                                                                                                                                        |       |       |    |     |      |      |      |      |     |      |      |      |      |

**18 AWG Pairs** Stranded (7x26) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

| Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket                                                                                                                         |       |       |    |      |      |      |      |      |     |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----|------|------|------|------|------|-----|------|------|------|------|
| CSA C22.2#239, Type ACIC<br>CSA C22.2#174, HLBCD<br>CSA C22.2#0.3, Clause 4.31<br>Low Acid Test<br>FT4 Flame Test<br> | 23533 | 26514 | 1  | 160  | 237  | 258  | 383  | .025 | .64 | .30  | 7.6  | .60  | 15.2 |
|                                                                                                                                                                                                         | 23511 | 26515 | 2  | 247  | 367  | 384  | 570  | .025 | .64 | .48  | 12.2 | .78  | 19.8 |
|                                                                                                                                                                                                         | 23530 | 26516 | 4  | 340  | 505  | 500  | 745  | .025 | .64 | .58  | 14.7 | .88  | 22.4 |
|                                                                                                                                                                                                         | 23528 | 26517 | 6  | 420  | 625  | 610  | 906  | .025 | .64 | .67  | 17.0 | .98  | 24.9 |
|                                                                                                                                                                                                         | 23531 | 26518 | 8  | 543  | 808  | 827  | 1230 | .025 | .64 | .73  | 18.5 | 1.03 | 26.1 |
|                                                                                                                                                                                                         | 23524 | 26519 | 12 | 717  | 1065 | 1045 | 1555 | .025 | .64 | .90  | 22.9 | 1.28 | 32.6 |
|                                                                                                                                                                                                         | 23519 | 26520 | 16 | 850  | 1265 | 1210 | 1800 | .025 | .64 | .99  | 25.1 | 1.37 | 34.8 |
|                                                                                                                                                                                                         | 23542 | 26521 | 24 | 1100 | 1632 | 1510 | 2245 | .025 | .64 | 1.24 | 31.5 | 1.63 | 41.4 |
| -25°C Installed<br>-40°C to +105°C (Dry) (75°C Wet)                                                                                                                                                     | 23554 | 26555 | 36 | 1465 | 2180 | 1960 | 2910 | .025 | .64 | 1.41 | 35.8 | 1.80 | 45.7 |
|                                                                                                                                                                                                         |       |       |    |      |      |      |      |      |     |      |      |      |      |

**18 AWG Triads** Stranded (7x26) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

| Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket                                                                                                                         |       |       |    |      |      |      |      |      |     |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----|------|------|------|------|------|-----|------|------|------|------|
| CSA C22.2#239, Type ACIC<br>CSA C22.2#174, HLBCD<br>CSA C22.2#0.3, Clause 4.31<br>Low Acid Test<br>FT4 Flame Test<br> | 23505 | 26522 | 1  | 175  | 260  | 275  | 410  | .025 | .64 | .33  | 8.4  | .61  | 15.4 |
|                                                                                                                                                                                                         | 23516 | 26523 | 2  | 275  | 407  | 417  | 620  | .025 | .64 | .51  | 13.0 | .81  | 20.6 |
|                                                                                                                                                                                                         | 23515 | 26524 | 4  | 385  | 572  | 555  | 825  | .025 | .64 | .62  | 15.7 | .93  | 23.6 |
|                                                                                                                                                                                                         | 23508 | 26525 | 6  | 535  | 790  | 780  | 1160 | .025 | .64 | .75  | 19.1 | 1.11 | 28.2 |
|                                                                                                                                                                                                         | 23523 | 26526 | 8  | 680  | 1010 | 995  | 1476 | .025 | .64 | .81  | 20.6 | 1.18 | 30.0 |
|                                                                                                                                                                                                         | 23512 | 26527 | 12 | 916  | 1360 | 1215 | 1805 | .025 | .64 | 1.03 | 26.2 | 1.40 | 35.6 |
|                                                                                                                                                                                                         | 23537 | 26528 | 16 | 1020 | 1515 | 1400 | 2080 | .025 | .64 | 1.13 | 28.7 | 1.50 | 38.1 |
|                                                                                                                                                                                                         | 23536 | 26529 | 24 | 1335 | 1985 | 1775 | 2340 | .025 | .64 | 1.37 | 34.8 | 1.80 | 45.7 |
| -25°C Installed<br>-40°C to +105°C (Dry) (75°C Wet)                                                                                                                                                     |       |       |    |      |      |      |      |      |     |      |      |      |      |
|                                                                                                                                                                                                         |       |       |    |      |      |      |      |      |     |      |      |      |      |

Color Code: Pairs — Black and White with Numbers.  
Triads — Black, White and Red with Numbers.



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## CSA Instrumentation Cable

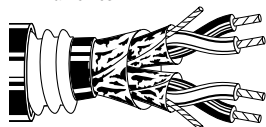
### 300V ACIC Armored Cables

| Description | Part No.       |             | No. of Pairs/Triads | Cable Weight Aluminum Armor |       | Cable Weight Steel Armor |       | Insulation Thickness |    | Nominal OD Inner Jacket |    | Nominal OD Outer Jacket |    |
|-------------|----------------|-------------|---------------------|-----------------------------|-------|--------------------------|-------|----------------------|----|-------------------------|----|-------------------------|----|
|             | Aluminum Armor | Steel Armor |                     | Lbs./1000 Ft.               | kg/km | Lbs./1000 Ft.            | kg/km | Inch                 | mm | Inch                    | mm | Inch                    | mm |

**16 AWG Pairs** Stranded (7x24) Tinned Copper • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

| Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket                                   |       |       |    |      |      |      |      |      |     |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------|-------|-------|----|------|------|------|------|------|-----|------|------|------|------|
| CSA C22.2#239, Type ACIC<br>CSA C22.2#174, HLBCD<br>CSA C22.2#0.3, Clause 4.31<br>Low Acid Test<br>FT4 Flame Test | 23501 | 26500 | 1  | 175  | 262  | 280  | 417  | .025 | .64 | .33  | 8.4  | .62  | 15.7 |
|                                                                                                                   | 23527 | 26501 | 2  | 280  | 418  | 425  | 635  | .025 | .64 | .52  | 13.2 | .81  | 20.5 |
|                                                                                                                   | 23509 | 26503 | 4  | 395  | 590  | 570  | 848  | .025 | .64 | .63  | 16.0 | .93  | 23.6 |
|                                                                                                                   | 23500 | 26504 | 6  | 510  | 755  | 715  | 1065 | .025 | .64 | .73  | 18.5 | 1.03 | 26.2 |
|                                                                                                                   | 23510 | 26505 | 8  | 625  | 930  | 910  | 1354 | .025 | .64 | .79  | 20.1 | 1.16 | 29.5 |
|                                                                                                                   | 23525 | 26506 | 12 | 875  | 1300 | 1230 | 1828 | .025 | .64 | 1.00 | 25.4 | 1.37 | 34.8 |
|                                                                                                                   | 23539 | 26507 | 16 | 1054 | 1570 | 1445 | 2150 | .025 | .64 | 1.11 | 28.2 | 1.48 | 37.6 |
|                                                                                                                   | 23538 | 26508 | 24 | 1397 | 2080 | 1840 | 2739 | .025 | .64 | 1.36 | 34.5 | 1.75 | 44.5 |
|                                                                                                                   | 23568 | 26551 | 36 | 1920 | 2856 | 2460 | 3658 | .025 | .64 | 1.60 | 40.6 | 1.97 | 49.9 |

-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

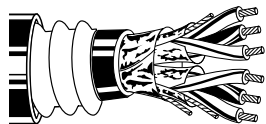


**16 AWG Triads** Stranded (7x24) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

| Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket                                   |       |       |    |      |      |      |      |      |     |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------|-------|-------|----|------|------|------|------|------|-----|------|------|------|------|
| CSA C22.2#239, Type ACIC<br>CSA C22.2#174, HLBCD<br>CSA C22.2#0.3, Clause 4.31<br>Low Acid Test<br>FT4 Flame Test | 23507 | 26502 | 1  | 190  | 280  | 295  | 438  | .025 | .64 | .35  | 8.9  | .63  | 16.1 |
|                                                                                                                   | 23522 | 26509 | 2  | 342  | 508  | 500  | 746  | .025 | .64 | .58  | 14.7 | .90  | 22.9 |
|                                                                                                                   | 23520 | 26510 | 4  | 450  | 677  | 640  | 954  | .025 | .64 | .68  | 17.3 | .95  | 25.2 |
|                                                                                                                   | 23529 | 26511 | 6  | 650  | 967  | 928  | 1375 | .025 | .64 | .78  | 19.8 | 1.19 | 30.2 |
|                                                                                                                   | 23526 | 26512 | 8  | 825  | 1227 | 1130 | 1676 | .025 | .64 | .93  | 23.6 | 1.30 | 33.0 |
|                                                                                                                   | 23541 | 26513 | 12 | 1082 | 1610 | 1511 | 2250 | .025 | .64 | 1.13 | 28.7 | 1.50 | 38.1 |
|                                                                                                                   | 23567 | 26545 | 16 | 1285 | 1912 | 1705 | 2530 | .025 | .64 | 1.25 | 31.8 | 1.64 | 41.7 |
|                                                                                                                   | 23578 | 26547 | 24 | 1725 | 2560 | 2200 | 3268 | .025 | .64 | 1.58 | 40.1 | 1.95 | 49.4 |

-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

Color Code: Pairs — Black and White with Numbers.  
Triads — Black, White and Red with Numbers.



# CSA Instrumentation Cable

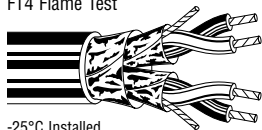
## 600V CIC

| Description | Part Number | No. of Pairs or Triads | Cable Weight  |       | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|------------------------|---------------|-------|------------------|----|------------|----|
|             |             |                        | Lbs./1000 Ft. | kg/km | Inch             | mm | Inch       | mm |

**18 AWG Pairs** Stranded (7x26) Tinned Copper • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

**PVC Insulation • Black PVC Jacket** (Color Code: Black and White with Numbers)

|                                          |       |    |      |      |      |      |      |       |
|------------------------------------------|-------|----|------|------|------|------|------|-------|
| CSA C22.2#239, Type CIC                  | 22417 | 1  | 109  | 73   | .045 | 1.14 | .32  | 8.13  |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | 22405 | 2  | 229  | 154  | .045 | 1.14 | .51  | 12.95 |
| FT4 Flame Test                           | 22404 | 4  | 374  | 251  | .060 | 1.52 | .63  | 16.00 |
|                                          | 22418 | 8  | 632  | 425  | .060 | 1.52 | .79  | 20.07 |
|                                          | 22421 | 12 | 970  | 652  | .080 | 2.03 | 1.00 | 25.40 |
|                                          | 22419 | 24 | 1741 | 1170 | .080 | 2.03 | 1.36 | 34.54 |

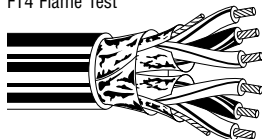


-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**18 AWG Triads** Stranded (7x26) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

**PVC Insulation • Black PVC Jacket** (Color Code: Black, White and Red with Numbers)

|                                          |       |   |     |     |      |      |     |       |
|------------------------------------------|-------|---|-----|-----|------|------|-----|-------|
| CSA C22.2#239, Type CIC                  | 22442 | 1 | 131 | 88  | .045 | 1.14 | .34 | 8.64  |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | 22443 | 2 | 299 | 201 | .060 | 1.52 | .58 | 14.73 |
| FT4 Flame Test                           | 22444 | 4 | 476 | 320 | .060 | 1.52 | .68 | 16.73 |
|                                          | 22445 | 8 | 893 | 600 | .080 | 2.03 | .88 | 22.35 |



-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**16 AWG Pairs** Stranded (7x24) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

**PVC Insulation • Black PVC Jacket** (Color Code: Black and White with Numbers)

|                                          |       |    |      |      |      |      |      |       |
|------------------------------------------|-------|----|------|------|------|------|------|-------|
| CSA C22.2#239, Type CIC                  | 22416 | 1  | 129  | 87   | .045 | 1.14 | .34  | 8.64  |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | 22409 | 2  | 229  | 201  | .045 | 1.14 | .59  | 14.99 |
| FT4 Flame Test                           | 22410 | 4  | 469  | 315  | .060 | 1.52 | .68  | 17.27 |
|                                          | 22446 | 6  | 667  | 448  | .060 | 1.52 | .79  | 20.07 |
|                                          | 22411 | 8  | 841  | 565  | .080 | 2.03 | .90  | 22.86 |
|                                          | 22412 | 12 | 1235 | 830  | .080 | 2.03 | 1.09 | 27.69 |
|                                          | 22447 | 24 | 2250 | 1512 | .080 | 2.03 | 1.49 | 37.85 |

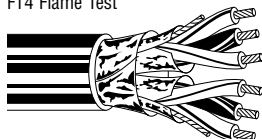


-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**16 AWG Triads** Stranded (7x24) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield • Drain Wires

**PVC Insulation • Black PVC Jacket** (Color Code: Black, White and Red with Numbers)

|                                          |       |   |      |     |      |      |     |       |
|------------------------------------------|-------|---|------|-----|------|------|-----|-------|
| CSA C22.2#239, Type CIC                  | 22413 | 1 | 167  | 112 | .045 | 1.14 | .36 | 9.14  |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | 22448 | 2 | 372  | 250 | .045 | 1.14 | .62 | 15.75 |
| FT4 Flame Test                           | 22414 | 4 | 606  | 407 | .060 | 1.52 | .72 | 18.29 |
|                                          | 22415 | 8 | 1144 | 769 | .080 | 2.03 | .96 | 24.38 |



-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)



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1-800-527-0010

# CSA Instrumentation Cable

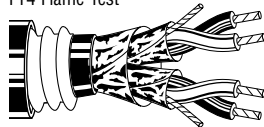
## 600V ACIC Armored Cables

| Description | Part No.       |             | No. of Pairs/Triads | Cable Weight Aluminum Armor |       | Cable Weight Steel Armor |       | Insulation Thickness |    | Nominal OD Inner Jacket |    | Nominal OD Outer Jacket |    |
|-------------|----------------|-------------|---------------------|-----------------------------|-------|--------------------------|-------|----------------------|----|-------------------------|----|-------------------------|----|
|             | Aluminum Armor | Steel Armor |                     | Lbs./1000 Ft.               | kg/km | Lbs./1000 Ft.            | kg/km | Inch                 | mm | Inch                    | mm | Inch                    | mm |

**18 AWG Pairs** Stranded (7x26) Tinned Copper • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil • Mylar® Separator • Drain Wires

### Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket

|                            |              |              |    |      |      |      |      |      |     |      |       |      |       |
|----------------------------|--------------|--------------|----|------|------|------|------|------|-----|------|-------|------|-------|
| CSA C22.2#239, Type ACIC   | <b>24511</b> | <b>25506</b> | 1  | 154  | 229  | 257  | 382  | .030 | .76 | .32  | 8.13  | .61  | 15.49 |
| CSA C22.2#174, HLBCD       | <b>24512</b> | <b>25514</b> | 2  | 238  | 354  | 387  | 575  | .030 | .76 | .51  | 12.95 | .82  | 20.83 |
| CSA C22.2#0.3, Clause 4.31 | <b>24513</b> | <b>25503</b> | 4  | 335  | 499  | 504  | 750  | .030 | .76 | .63  | 16.00 | .93  | 23.62 |
| Low Acid Test              |              |              |    |      |      |      |      |      |     |      |       |      |       |
| FT4 Flame Test             | <b>24514</b> | <b>25505</b> | 8  | 536  | 798  | 829  | 1233 | .030 | .76 | .79  | 20.27 | 1.15 | 29.21 |
|                            | <b>24515</b> | <b>25501</b> | 12 | 739  | 1100 | 1092 | 1624 | .030 | .76 | 1.00 | 25.40 | 1.36 | 34.54 |
|                            | <b>24520</b> | <b>25517</b> | 24 | 1169 | 1740 | 1674 | 2490 | .030 | .76 | 1.36 | 34.54 | 1.75 | 44.45 |

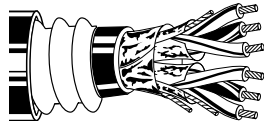


-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**18 AWG Triads** Stranded (7x26) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

### Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket

|                            |              |              |   |     |      |     |      |      |     |     |       |      |       |
|----------------------------|--------------|--------------|---|-----|------|-----|------|------|-----|-----|-------|------|-------|
| CSA C22.2#239, Type ACIC   | <b>24516</b> | <b>25500</b> | 1 | 166 | 246  | 276 | 410  | .030 | .76 | .34 | 8.64  | .63  | 16.00 |
| CSA C22.2#174, HLBCD       | <b>24517</b> | <b>25522</b> | 2 | 293 | 435  | 455 | 676  | .030 | .76 | .58 | 14.73 | .89  | 22.61 |
| CSA C22.2#0.3, Clause 4.31 | <b>24518</b> | <b>25520</b> | 4 | 391 | 583  | 572 | 851  | .030 | .76 | .66 | 16.76 | .99  | 25.15 |
| Low Acid Test              |              |              |   |     |      |     |      |      |     |     |       |      |       |
| FT4 Flame Test             | <b>24519</b> | <b>25523</b> | 8 | 673 | 1002 | 988 | 1470 | .030 | .76 | .88 | 22.35 | 1.29 | 32.77 |

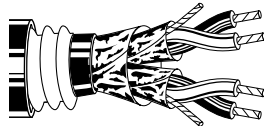


-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**16 AWG Pairs** Stranded (7x24) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil • Mylar Separator • Drain Wires

### Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket

|                            |              |              |    |      |      |      |      |      |     |      |       |      |       |
|----------------------------|--------------|--------------|----|------|------|------|------|------|-----|------|-------|------|-------|
| CSA C22.2#239, Type ACIC   | <b>24500</b> | <b>25504</b> | 1  | 171  | 254  | 279  | 415  | .030 | .76 | .34  | 8.64  | .64  | 16.26 |
| CSA C22.2#174, HLBCD       | <b>24505</b> | <b>25510</b> | 2  | 299  | 445  | 455  | 677  | .030 | .76 | .59  | 14.99 | .89  | 22.61 |
| CSA C22.2#0.3, Clause 4.31 | <b>24502</b> | <b>25511</b> | 4  | 450  | 669  | 583  | 868  | .030 | .76 | .68  | 17.27 | .98  | 24.89 |
| Low Acid Test              |              |              |    |      |      |      |      |      |     |      |       |      |       |
| FT4 Flame Test             | <b>24506</b> | <b>25512</b> | 6  | 576  | 857  | 880  | 1310 | .030 | .76 | .79  | 20.07 | 1.16 | 29.46 |
|                            | <b>24503</b> | <b>25513</b> | 8  | 679  | 1010 | 1005 | 1495 | .030 | .76 | .90  | 22.86 | 1.27 | 32.26 |
|                            | <b>24504</b> | <b>25518</b> | 12 | 908  | 1351 | 1280 | 1905 | .030 | .76 | 1.09 | 27.69 | 1.46 | 37.08 |
|                            | <b>24510</b> | <b>25519</b> | 24 | 1502 | 2235 | 2030 | 3020 | .030 | .76 | 1.49 | 37.85 | 1.88 | 47.75 |

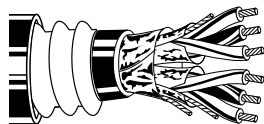


-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**16 AWG Triads** Stranded (7x24) Tinned Copper • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil • Drain Wires

### Interlocked Armor • PVC Insulation • PVC Inner Jacket • Chrome PVC Outer Jacket

|                            |              |              |   |     |      |      |      |      |     |     |       |      |       |
|----------------------------|--------------|--------------|---|-----|------|------|------|------|-----|-----|-------|------|-------|
| CSA C22.2#239, Type ACIC   | <b>24501</b> | <b>25502</b> | 1 | 195 | 289  | 309  | 460  | .030 | .76 | .36 | 9.14  | .66  | 16.76 |
| CSA C22.2#174, HLBCD       | <b>24507</b> | <b>25507</b> | 2 | 339 | 504  | 465  | 691  | .030 | .76 | .62 | 15.75 | .94  | 23.88 |
| CSA C22.2#0.3, Clause 4.31 | <b>24508</b> | <b>25509</b> | 4 | 464 | 690  | 793  | 1180 | .030 | .76 | .72 | 18.29 | 1.05 | 26.67 |
| Low Acid Test              |              |              |   |     |      |      |      |      |     |     |       |      |       |
| FT4 Flame Test             | <b>24509</b> | <b>25508</b> | 8 | 807 | 1201 | 1250 | 1860 | .030 | .76 | .96 | 24.38 | 1.33 | 33.78 |



-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

Color Code: Pairs — Black and White with Numbers.  
Triads — Black, White and Red with Numbers.

Mylar is DuPont trademark.



## CSA Control Cable

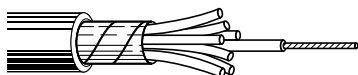
### 600V CIC Multi-conductor Cables

| Description | Part Number | No. of Cond. | Cable Weight  |       | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|--------------|---------------|-------|----------------------|----|------------------|----|------------|----|
|             |             |              | Lbs./1000 Ft. | kg/km | Inch                 | mm | Inch             | mm | Inch       | mm |

#### 14 AWG Stranded (7x22) Bare Copper Conductors

##### Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)

|                                          |       |    |     |     |      |     |      |      |      |       |
|------------------------------------------|-------|----|-----|-----|------|-----|------|------|------|-------|
| CSA C22.2#239, Type CIC                  | 22100 | 2  | 62  | 92  | .030 | .76 | .045 | 1.14 | .367 | 9.32  |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | 22101 | 3  | 81  | 120 | .030 | .76 | .045 | 1.14 | .388 | 9.86  |
| FT4 Flame Test                           | 22102 | 4  | 101 | 150 | .030 | .76 | .045 | 1.14 | .423 | 10.74 |
|                                          | 22103 | 5  | 122 | 181 | .030 | .76 | .045 | 1.14 | .462 | 11.73 |
|                                          | 22104 | 6  | 143 | 213 | .030 | .76 | .045 | 1.14 | .504 | 12.80 |
|                                          | 22105 | 7  | 160 | 238 | .030 | .76 | .045 | 1.14 | .504 | 12.80 |
|                                          | 22106 | 8  | 197 | 293 | .030 | .76 | .060 | 1.52 | .576 | 14.63 |
|                                          | 22107 | 9  | 220 | 326 | .030 | .76 | .060 | 1.52 | .618 | 15.70 |
|                                          | 22108 | 10 | 226 | 336 | .030 | .76 | .060 | 1.52 | .669 | 17.00 |
|                                          | 22110 | 12 | 279 | 415 | .030 | .76 | .060 | 1.52 | .689 | 17.50 |
| -25°C Installed                          | 22114 | 16 | 357 | 531 | .030 | .76 | .060 | 1.52 | .764 | 19.41 |
| -40°C to +105°C (Dry) (75°C Wet)         | 22118 | 20 | 467 | 695 | .030 | .76 | .080 | 2.03 | .886 | 22.50 |



#### 12 AWG Stranded (7x20) Bare Copper Conductors

##### Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)

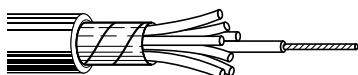
|                                          |       |    |     |     |      |     |      |      |      |       |
|------------------------------------------|-------|----|-----|-----|------|-----|------|------|------|-------|
| CSA C22.2#239, Type CIC                  | 22120 | 2  | 82  | 122 | .030 | .76 | .045 | 1.14 | .405 | 10.29 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | 22121 | 3  | 109 | 162 | .030 | .76 | .045 | 1.14 | .429 | 10.90 |
| FT4 Flame Test                           | 22122 | 4  | 140 | 207 | .030 | .76 | .045 | 1.14 | .469 | 11.91 |
|                                          | 22123 | 5  | 170 | 252 | .030 | .76 | .045 | 1.14 | .515 | 13.08 |
|                                          | 22124 | 6  | 214 | 318 | .030 | .76 | .060 | 1.52 | .591 | 15.01 |
|                                          | 22125 | 7  | 240 | 357 | .030 | .76 | .060 | 1.52 | .591 | 15.01 |
|                                          | 22126 | 8  | 270 | 402 | .030 | .76 | .060 | 1.52 | .639 | 16.23 |
|                                          | 22127 | 9  | 302 | 449 | .030 | .76 | .060 | 1.52 | .687 | 17.45 |
|                                          | 22128 | 10 | 336 | 499 | .030 | .76 | .060 | 1.52 | .745 | 18.92 |
|                                          | 22130 | 12 | 390 | 579 | .030 | .76 | .060 | 1.52 | .768 | 19.51 |
| -25°C Installed                          | 22134 | 16 | 584 | 794 | .030 | .76 | .080 | 2.03 | .893 | 22.68 |
| -40°C to +105°C (Dry) (75°C Wet)         | 22138 | 20 | 655 | 975 | .030 | .76 | .080 | 2.03 | .992 | 25.20 |



#### 10 AWG Stranded (7x18) Bare Copper Conductors

##### Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)

|                                          |       |    |     |      |      |     |      |      |       |       |
|------------------------------------------|-------|----|-----|------|------|-----|------|------|-------|-------|
| CSA C22.2#239, Type CIC                  | 22140 | 2  | 148 | 219  | .030 | .76 | .045 | 1.14 | .736  | 18.69 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | 22141 | 3  | 189 | 281  | .030 | .76 | .045 | 1.14 | .763  | 19.38 |
| FT4 Flame Test                           | 22142 | 4  | 248 | 368  | .030 | .76 | .060 | 1.52 | .839  | 21.31 |
|                                          | 22143 | 5  | 293 | 436  | .030 | .76 | .060 | 1.52 | .891  | 22.63 |
|                                          | 22144 | 6  | 338 | 503  | .030 | .76 | .060 | 1.52 | .944  | 23.98 |
|                                          | 22145 | 7  | 378 | 562  | .030 | .76 | .060 | 1.52 | .944  | 23.98 |
|                                          | 22146 | 8  | 424 | 630  | .030 | .76 | .060 | 1.52 | .999  | 25.37 |
|                                          | 22147 | 9  | 469 | 698  | .030 | .76 | .060 | 1.52 | 1.074 | 29.28 |
|                                          | 22148 | 10 | 548 | 816  | .030 | .76 | .080 | 2.03 | 1.182 | 30.02 |
|                                          | 22150 | 12 | 631 | 939  | .030 | .76 | .080 | 2.03 | 1.209 | 30.71 |
| -25°C Installed                          | 22152 | 14 | 717 | 1067 | .030 | .76 | .080 | 2.03 | 1.255 | 31.88 |
| -40°C to +105°C (Dry) (75°C Wet)         | 22154 | 16 | 805 | 1197 | .030 | .76 | .080 | 2.03 | 1.307 | 33.20 |



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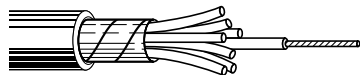
1-800-527-0010

**CSA Control Cable****600V CIC Multi-conductor Cables**

| Description | Part Number | No. of Cond. | Cable Weight  |       | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|--------------|---------------|-------|----------------------|----|------------------|----|------------|----|
|             |             |              | Lbs./1000 Ft. | kg/km | Inch                 | mm | Inch             | mm | Inch       | mm |

**8 AWG Stranded (7x16) Bare Copper Conductors****Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

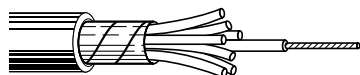
|                                          |              |   |     |     |      |      |      |      |      |       |
|------------------------------------------|--------------|---|-----|-----|------|------|------|------|------|-------|
| CSA C22.2#239, Type CIC                  | <b>22160</b> | 2 | 240 | 357 | .045 | 1.14 | .060 | 1.52 | .863 | 21.08 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | <b>22161</b> | 3 | 308 | 458 | .045 | 1.14 | .060 | 1.52 | .898 | 22.81 |
| FT4 Flame Test                           | <b>22162</b> | 4 | 379 | 564 | .045 | 1.14 | .060 | 1.52 | .957 | 24.31 |



-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**6 AWG Stranded (7x14) Bare Copper Conductors****Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

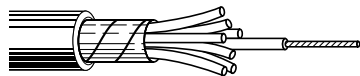
|                                          |              |   |     |     |      |      |      |      |      |       |
|------------------------------------------|--------------|---|-----|-----|------|------|------|------|------|-------|
| CSA C22.2#239, Type CIC                  | <b>22170</b> | 2 | 279 | 414 | .060 | 1.52 | .060 | 1.52 | .711 | 18.06 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | <b>22171</b> | 3 | 383 | 570 | .060 | 1.52 | .060 | 1.52 | .756 | 19.22 |
| FT4 Flame Test                           |              |   |     |     |      |      |      |      |      |       |



-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

**4 AWG Stranded (7x12) Bare Copper Conductors****Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

|                                          |              |   |     |     |      |      |      |      |      |       |
|------------------------------------------|--------------|---|-----|-----|------|------|------|------|------|-------|
| CSA C22.2#239, Type CIC                  | <b>22180</b> | 2 | 390 | 580 | .060 | 1.52 | .060 | 1.52 | .800 | 20.32 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Test | <b>22181</b> | 3 | 580 | 863 | .060 | 1.52 | .080 | 2.03 | .891 | 22.63 |
| FT4 Flame Test                           |              |   |     |     |      |      |      |      |      |       |



-25°C Installed  
-40°C to +105°C (Dry) (75°C Wet)

## CSA Control Cable

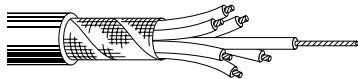
### 600V Type TC/CIC Cables

| Description | Part Number | No. of Cond. | Cable Weight  |       | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|--------------|---------------|-------|------------------|----|------------|----|
|             |             |              | Lbs./1000 Ft. | kg/km | Inch             | mm | Inch       | mm |

**14 AWG** Stranded (7x22) Bare Copper • Separator Tape

#### Cross-linked Polyethylene Insulation • Black PVC Jacket

CSA C22.2#230 Type TC  
CSA C22.2#239 Type CIC  
FT4 Flame Test



|       |    |     |      |      |      |       |       |
|-------|----|-----|------|------|------|-------|-------|
| 27000 | 2  | 110 | 164  | .045 | 1.14 | .368  | 9.35  |
| 27001 | 3  | 127 | 189  | .045 | 1.14 | .388  | 9.86  |
| 27002 | 4  | 151 | 224  | .045 | 1.14 | .420  | 10.67 |
| 27003 | 5  | 175 | 260  | .045 | 1.14 | .460  | 11.68 |
| 27004 | 6  | 198 | 295  | .045 | 1.14 | .500  | 12.70 |
| 27005 | 7  | 218 | 324  | .045 | 1.14 | .500  | 12.70 |
| 27006 | 8  | 249 | 370  | .060 | 1.52 | .610  | 15.49 |
| 27007 | 9  | 276 | 411  | .060 | 1.52 | .630  | 16.00 |
| 27008 | 10 | 328 | 488  | .060 | 1.52 | .630  | 16.00 |
| 27009 | 11 | 333 | 495  | .060 | 1.52 | .650  | 16.51 |
| 27010 | 12 | 359 | 535  | .060 | 1.52 | .650  | 16.51 |
| 27011 | 13 | 390 | 580  | .060 | 1.52 | .755  | 19.18 |
| 27012 | 14 | 409 | 609  | .060 | 1.52 | .755  | 19.18 |
| 27013 | 15 | 434 | 646  | .060 | 1.52 | .755  | 19.18 |
| 27014 | 16 | 454 | 675  | .070 | 1.78 | .810  | 20.57 |
| 27015 | 17 | 485 | 722  | .075 | 1.91 | .860  | 21.84 |
| 27016 | 18 | 505 | 751  | .075 | 1.91 | .860  | 21.84 |
| 27017 | 19 | 525 | 781  | .075 | 1.91 | .860  | 21.84 |
| 27018 | 20 | 558 | 831  | .080 | 2.03 | .887  | 22.53 |
| 27019 | 21 | 578 | 860  | .080 | 2.03 | .920  | 23.37 |
| 27020 | 22 | 614 | 914  | .085 | 2.16 | .970  | 24.64 |
| 27021 | 23 | 634 | 944  | .085 | 2.16 | .970  | 24.64 |
| 27022 | 24 | 716 | 1065 | .090 | 2.29 | 1.040 | 26.42 |
| 27023 | 25 | 735 | 1094 | .090 | 2.29 | 1.040 | 26.42 |
| 27024 | 26 | 755 | 1124 | .090 | 2.29 | 1.040 | 26.42 |
| 27025 | 27 | 773 | 1151 | .095 | 2.41 | 1.070 | 26.42 |
| 27026 | 28 | 795 | 1183 | .095 | 2.41 | 1.100 | 27.94 |
| 27027 | 29 | 815 | 1213 | .095 | 2.41 | 1.100 | 27.94 |
| 27028 | 30 | 832 | 1238 | .095 | 2.41 | 1.100 | 27.94 |
| 27830 | 37 | 997 | 1484 | .095 | 2.41 | 1.190 | 30.23 |

-25°C Installed  
-40°C to +90°C (Wet/Dry)

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — number coded



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## CSA Control Cable

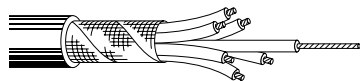
### 600V Type TC/CIC Cables

| Description | Part Number | No. of Cond. | Cable Weight  |       | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|--------------|---------------|-------|------------------|----|------------|----|
|             |             |              | Lbs./1000 Ft. | kg/km | Inch             | mm | Inch       | mm |

**12 AWG** Stranded (7x20) Bare Copper • Separator Tape

#### Cross-linked Polyethylene Insulation • Black PVC Jacket

CSA C22.2#230 Type TC  
CSA C22.2#239 Type CIC  
FT4 Flame Test



|       |    |      |      |      |      |       |       |
|-------|----|------|------|------|------|-------|-------|
| 27029 | 2  | 138  | 205  | .045 | 1.14 | .404  | 10.26 |
| 27030 | 3  | 163  | 242  | .045 | 1.14 | .427  | 10.85 |
| 27031 | 4  | 194  | 288  | .045 | 1.14 | .466  | 11.84 |
| 27032 | 5  | 227  | 338  | .045 | 1.14 | .509  | 12.93 |
| 27033 | 6  | 266  | 396  | .060 | 1.52 | .554  | 14.07 |
| 27034 | 7  | 294  | 438  | .060 | 1.52 | .554  | 14.07 |
| 27035 | 8  | 319  | 475  | .060 | 1.52 | .680  | 17.27 |
| 27036 | 9  | 376  | 546  | .060 | 1.52 | .730  | 18.54 |
| 27037 | 10 | 444  | 661  | .060 | 1.52 | .757  | 19.23 |
| 27038 | 11 | 447  | 665  | .060 | 1.52 | .757  | 19.23 |
| 27039 | 12 | 491  | 731  | .060 | 1.52 | .757  | 19.23 |
| 27040 | 13 | 529  | 787  | .075 | 1.91 | .870  | 22.10 |
| 27041 | 14 | 557  | 829  | .075 | 1.91 | .870  | 22.10 |
| 27042 | 15 | 592  | 881  | .075 | 1.91 | .920  | 23.37 |
| 27043 | 16 | 620  | 923  | .075 | 1.91 | .920  | 23.37 |
| 27044 | 17 | 665  | 990  | .080 | 2.03 | .970  | 24.64 |
| 27045 | 18 | 693  | 1032 | .080 | 2.03 | .970  | 24.64 |
| 27046 | 19 | 722  | 1075 | .080 | 2.03 | .970  | 24.64 |
| 27047 | 20 | 769  | 1145 | .080 | 2.03 | 1.020 | 25.91 |
| 27048 | 21 | 798  | 1187 | .080 | 2.03 | 1.020 | 25.91 |
| 27049 | 22 | 846  | 1259 | .080 | 2.03 | 1.070 | 27.18 |
| 27050 | 23 | 875  | 1302 | .080 | 2.03 | 1.070 | 27.18 |
| 27051 | 24 | 976  | 1452 | .080 | 2.03 | 1.130 | 28.70 |
| 27052 | 25 | 1004 | 1495 | .080 | 2.03 | 1.130 | 28.70 |
| 27053 | 26 | 1033 | 1538 | .080 | 2.03 | 1.130 | 28.70 |
| 27054 | 27 | 1049 | 1561 | .080 | 2.03 | 1.130 | 28.70 |
| 27055 | 28 | 1078 | 1605 | .080 | 2.03 | 1.200 | 30.48 |
| 27056 | 29 | 1107 | 1648 | .080 | 2.03 | 1.200 | 30.48 |
| 27057 | 30 | 1143 | 1701 | .080 | 2.03 | 1.200 | 30.48 |
| 27831 | 37 | 1377 | 2049 | .080 | 2.03 | 1.227 | 31.17 |

-25°C Installed

-40°C to +90°C (Wet/Dry)

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — number coded



## CSA Control Cable

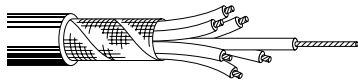
### 600V Type TC/CIC Cables

| Description | Part Number | No. of Cond. | Cable Weight  |       | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|--------------|---------------|-------|------------------|----|------------|----|
|             |             |              | Lbs./1000 Ft. | kg/km | Inch             | mm | Inch       | mm |

#### 10 AWG Stranded (7x18) Bare Copper • Separator Tape

##### Cross-linked Polyethylene Insulation • Black PVC Jacket

CSA C22.2#230 Type TC  
CSA C22.2#239 Type CIC  
FT4 Flame Test



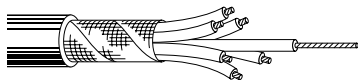
|       |    |      |      |      |      |       |       |
|-------|----|------|------|------|------|-------|-------|
| 27058 | 2  | 185  | 276  | .045 | 1.14 | .440  | 11.18 |
| 27059 | 3  | 227  | 338  | .045 | 1.14 | .478  | 12.14 |
| 27060 | 4  | 273  | 406  | .060 | 1.52 | .554  | 14.07 |
| 27061 | 5  | 323  | 480  | .060 | 1.52 | .640  | 16.26 |
| 27062 | 6  | 370  | 551  | .060 | 1.52 | .657  | 16.69 |
| 27063 | 7  | 413  | 615  | .065 | 1.65 | .700  | 17.78 |
| 27064 | 8  | 472  | 703  | .070 | 1.78 | .770  | 19.56 |
| 27065 | 9  | 523  | 778  | .070 | 1.78 | .820  | 20.83 |
| 27066 | 10 | 619  | 921  | .070 | 1.78 | .890  | 22.61 |
| 27067 | 11 | 661  | 984  | .070 | 1.78 | .890  | 22.61 |
| 27068 | 12 | 691  | 1029 | .070 | 1.78 | .920  | 23.37 |
| 27069 | 13 | 744  | 1108 | .075 | 1.91 | .980  | 24.89 |
| 27070 | 14 | 787  | 1171 | .075 | 1.91 | .980  | 24.89 |
| 27071 | 15 | 847  | 1260 | .080 | 2.03 | 1.040 | 26.42 |
| 27072 | 16 | 889  | 1323 | .080 | 2.03 | 1.040 | 26.42 |
| 27073 | 17 | 951  | 1416 | .085 | 2.16 | 1.100 | 27.94 |
| 27074 | 18 | 994  | 1480 | .085 | 2.16 | 1.100 | 27.94 |
| 27075 | 19 | 1037 | 1543 | .085 | 2.16 | 1.100 | 27.94 |
| 27076 | 20 | 1128 | 1679 | .095 | 2.41 | 1.190 | 30.23 |

-25°C Installed  
-40°C to +90°C (Wet/Dry)

#### 8 AWG Stranded (7x16) Bare Copper • Separator Tape

##### Cross-linked Polyethylene Insulation • Black PVC Jacket

CSA C22.2#230 Type TC  
CSA C22.2#239 Type CIC  
FT4 Flame Test



|       |   |     |     |      |      |      |       |
|-------|---|-----|-----|------|------|------|-------|
| 27077 | 2 | 283 | 421 | .060 | 1.52 | .600 | 15.24 |
| 27078 | 3 | 341 | 508 | .060 | 1.52 | .619 | 15.72 |
| 27079 | 4 | 419 | 623 | .075 | 1.91 | .730 | 18.54 |

-25°C Installed  
-40°C to +90°C (Wet/Dry)

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — number coded



By:



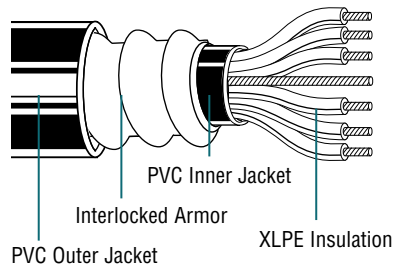
INTERSTATE WIRE CO.  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 [www.belden.com](http://www.belden.com)

1-800-527-0010

## CSA Control Cable

### 600V ACIC and Teck90 Cables — Overview



#### Introduction

Belden® Teck90 and ACIC cables are designed to meet demanding industrial needs by combining rugged durability and corrosion resistance with flexibility and easy handling.

Teck90 and ACIC Cables are available in a wide range of in-stock and custom constructions to meet the needs of pulp and paper, chemical, petroleum and other demanding industrial and resource industry environments. They are ideal for use in wet or dry areas; ventilated, non-ventilated or ladder-type cable troughs; ventilated flexible cableways; and for direct burial.

Belden Teck90 Cable is marked with “FT4,” “HL” designations, and cable constructions are certified to CSA Standard C22.2#131 and C22.2#174 for use in a wide range of hazardous locations. Both inner and outer jackets meet the acid gas evolution requirement of 14% maximum required by CSA Standard C22.2#0.3 Clause 4.31.

Custom cables are available upon request.

#### Construction

Class B stranded bare copper conductors, cross-link polyethylene insulation, bare copper ground wire, PVC inner jacket, aluminum steel interlocking armor, PVC outer jacket.

- Galvanized steel interlocking armor available as an option.

#### Voltage Rating

18 to 16 AWG — 600V ACIC

14 to 8 AWG — 600 Volts

14 to 4/0 AWG — 1000 Volts

#### Temperature Rating

-40°C to 90°C (Dry/Wet)

-25°C installed

#### Application

Teck90 and ACIC are general-purpose cables used in the pulp and paper, mining, petroleum and chemical industries as well as in commercial buildings.

Teck90 and ACIC may be used under the following conditions:

- Exposed or concealed wiring in dry or wet conditions
- In ventilated, non-ventilated or ladder-type cable trays in dry or wet conditions
- On walls or beams
- Directly buried
- CEC Class I, Division I locations

#### Minimum Bending Radius:

12 times the overall cable diameter

#### Pulling Tensions

The combined use of Kellems grips and pulling eyes is recommended.

#### Design Advantages

##### Insulation Properties

- High tensile strength
- Impact- and crush-resistant
- Heat-resistant
- Excellent elongation
- Moisture-resistant
- Good low temperature properties

##### Electrical Properties

- High insulation resistance
- Low dielectric loss
- High dielectric strength

##### Other Features

- Corrosion-resistant
- Versatile and flexible
- Provides cost savings as conduit and ducts are not required
- ACIC has a blue jacket

#### Specifications

- CSA Standard C22.2#131
- CSA Standard C22.2#174 “Cables and Cable Glands for Use in Hazardous Locations”
- CSA Standard C22.2#0.3 Clause 4.31 “Low Acid Gas”
- CSA Standard C22.2#0.3 Clause 4.11.4 “Cables with FT4 Marking”

# CSA Control Cable

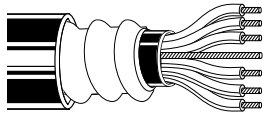
## 600V ACIC Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

### 18 AWG (7x26) Bare Copper • 18 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket

CSA C22.2#239  
FT4 Flame Test



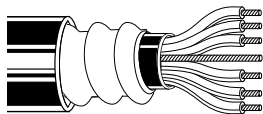
|       |    |     |      |      |       |      |       |      |       |     |      |      |        |
|-------|----|-----|------|------|-------|------|-------|------|-------|-----|------|------|--------|
| 29030 | 2  | 163 | 244  | .32  | 8.13  | .52  | 13.21 | .62  | 15.75 | 26  | 116  | 7.4  | 187.96 |
| 29031 | 3  | 177 | 264  | .34  | 8.64  | .54  | 13.72 | .64  | 16.26 | 39  | 173  | 7.6  | 193.04 |
| 29032 | 4  | 195 | 291  | .37  | 9.40  | .57  | 14.48 | .67  | 17.02 | 52  | 231  | 8.0  | 203.20 |
| 29033 | 5  | 219 | 327  | .41  | 10.41 | .61  | 15.49 | .71  | 18.03 | 65  | 289  | 8.5  | 215.90 |
| 29034 | 6  | 239 | 357  | .45  | 11.43 | .65  | 16.51 | .75  | 19.05 | 78  | 347  | 9.0  | 228.60 |
| 29035 | 7  | 245 | 366  | .45  | 11.43 | .65  | 16.51 | .75  | 19.05 | 91  | 405  | 9.0  | 228.60 |
| 29036 | 8  | 266 | 397  | .48  | 12.19 | .68  | 17.27 | .78  | 19.81 | 104 | 463  | 9.3  | 236.22 |
| 29038 | 10 | 331 | 494  | .56  | 14.22 | .76  | 19.30 | .87  | 22.10 | 130 | 578  | 10.6 | 269.24 |
| 29040 | 12 | 353 | 527  | .62  | 15.75 | .82  | 20.83 | .93  | 23.62 | 156 | 694  | 11.1 | 281.94 |
| 29043 | 15 | 401 | 599  | .65  | 16.51 | .85  | 21.59 | .96  | 24.38 | 190 | 845  | 11.5 | 292.10 |
| 29048 | 20 | 466 | 696  | .73  | 18.54 | .93  | 23.62 | 1.04 | 26.42 | 250 | 1112 | 12.4 | 314.96 |
| 29053 | 25 | 589 | 879  | .79  | 20.07 | 1.05 | 26.67 | 1.16 | 29.46 | 295 | 1312 | 13.9 | 353.06 |
| 29058 | 30 | 698 | 1042 | .88  | 22.35 | 1.14 | 28.96 | 1.25 | 31.75 | 350 | 1557 | 15.0 | 381.00 |
| 29068 | 40 | 827 | 1234 | .97  | 24.64 | 1.23 | 31.24 | 1.35 | 34.29 | 470 | 2091 | 16.2 | 411.48 |
| 29078 | 50 | 965 | 1440 | 1.09 | 27.69 | 1.35 | 34.29 | 1.47 | 37.34 | 590 | 2625 | 17.6 | 447.04 |

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

### 16 AWG (7x24) Bare Copper • 16 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket

CSA C22.2#239  
FT4 Flame Test



|       |    |      |      |      |       |      |       |      |       |      |      |      |        |
|-------|----|------|------|------|-------|------|-------|------|-------|------|------|------|--------|
| 29017 | 2  | 202  | 301  | .34  | 8.64  | .54  | 13.72 | .65  | 16.51 | 62   | 276  | 7.7  | 195.58 |
| 29004 | 3  | 221  | 330  | .36  | 9.14  | .56  | 14.22 | .66  | 16.76 | 66   | 294  | 7.9  | 200.66 |
| 29018 | 4  | 242  | 361  | .39  | 9.91  | .59  | 14.99 | .70  | 17.78 | 82   | 365  | 8.3  | 210.82 |
| 29019 | 5  | 264  | 394  | .42  | 10.67 | .62  | 15.75 | .73  | 18.54 | 99   | 440  | 8.6  | 218.44 |
| 29005 | 6  | 292  | 435  | .46  | 11.68 | .66  | 16.76 | .77  | 19.56 | 115  | 512  | 9.1  | 231.14 |
| 29020 | 7  | 314  | 469  | .47  | 11.94 | .67  | 17.02 | .77  | 19.56 | 132  | 587  | 9.2  | 233.68 |
| 29021 | 8  | 364  | 543  | .50  | 12.70 | .70  | 17.78 | .80  | 20.32 | 149  | 663  | 9.6  | 243.84 |
| 29022 | 10 | 412  | 615  | .61  | 15.49 | .81  | 20.57 | .92  | 23.37 | 182  | 810  | 10.9 | 276.86 |
| 29006 | 12 | 441  | 658  | .63  | 16.00 | .83  | 21.08 | .94  | 23.88 | 215  | 956  | 11.2 | 284.48 |
| 29023 | 15 | 502  | 749  | .68  | 17.27 | .88  | 22.35 | 1.00 | 25.40 | 264  | 1174 | 11.9 | 302.26 |
| 29007 | 20 | 636  | 949  | .77  | 19.56 | 1.03 | 26.16 | 1.13 | 28.70 | 347  | 1544 | 13.7 | 347.98 |
| 29024 | 25 | 845  | 1261 | .89  | 22.61 | 1.15 | 29.21 | 1.26 | 32.00 | 430  | 1913 | 15.1 | 383.54 |
| 29008 | 30 | 922  | 1376 | .94  | 23.88 | 1.20 | 30.48 | 1.30 | 33.02 | 512  | 2278 | 15.8 | 401.32 |
| 29009 | 40 | 1109 | 1655 | 1.06 | 26.92 | 1.32 | 33.53 | 1.41 | 35.81 | 678  | 3016 | 17.3 | 439.42 |
| 29016 | 50 | 1306 | 1949 | 1.19 | 30.23 | 1.45 | 36.83 | 1.54 | 39.12 | 843  | 3750 | 18.8 | 477.52 |
| 29025 | 60 | 1390 | 2075 | 1.27 | 32.26 | 1.53 | 38.86 | 1.66 | 42.16 | 1015 | 4515 | 19.9 | 505.46 |

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: #1 conductor is white; remaining conductors are black with number coding. Other color codes available upon request.



By:



INTERSTATE WIRE  
INCORPORATED

Technical Support: 1-800-BELDEN-1 or 1-800-BELDEN-3 www.belden.com

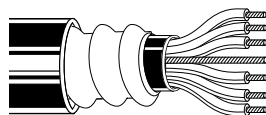
1-800-527-0010

**CSA Control Cable****600V Teck90 Cables**

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**14 AWG (7x22) Bare Copper • 14 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#239  
FT4 Flame Test

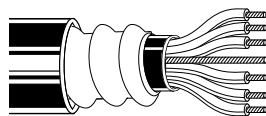


|              |    |      |      |      |       |      |       |      |       |      |      |      |        |
|--------------|----|------|------|------|-------|------|-------|------|-------|------|------|------|--------|
| <b>C5500</b> | 2  | 198  | 296  | .36  | 9.14  | .56  | 14.22 | .66  | 16.76 | 66   | 294  | 7.8  | 198.12 |
| <b>C5501</b> | 3  | 222  | 331  | .39  | 9.91  | .58  | 14.73 | .66  | 16.76 | 98   | 436  | 8.2  | 208.28 |
| <b>C5502</b> | 4  | 251  | 375  | .42  | 10.67 | .62  | 15.75 | .71  | 18.03 | 131  | 583  | 8.5  | 215.90 |
| <b>C5503</b> | 5  | 284  | 424  | .47  | 11.94 | .66  | 16.76 | .74  | 18.80 | 164  | 730  | 9.0  | 228.60 |
| <b>C5504</b> | 6  | 317  | 473  | .51  | 12.95 | .70  | 17.78 | .78  | 19.81 | 191  | 850  | 9.5  | 241.30 |
| <b>C5505</b> | 7  | 331  | 494  | .51  | 12.95 | .70  | 17.78 | .78  | 19.81 | 225  | 1001 | 9.5  | 241.30 |
| <b>C5506</b> | 8  | 414  | 618  | .58  | 14.73 | .77  | 19.56 | .86  | 21.84 | 260  | 1157 | 10.4 | 264.16 |
| <b>C5508</b> | 10 | 510  | 761  | .67  | 17.02 | .93  | 23.62 | .95  | 24.13 | 321  | 1428 | 12.3 | 312.42 |
| <b>C5510</b> | 12 | 551  | 822  | .69  | 17.53 | .95  | 24.13 | .97  | 24.64 | 388  | 1726 | 12.6 | 320.04 |
| <b>C5513</b> | 15 | 636  | 949  | .77  | 19.56 | 1.03 | 26.16 | 1.11 | 28.19 | 481  | 2140 | 14.1 | 358.14 |
| <b>C5518</b> | 20 | 810  | 1209 | .90  | 22.86 | 1.16 | 29.46 | 1.24 | 31.50 | 649  | 2887 | 15.1 | 383.54 |
| <b>C5523</b> | 25 | 948  | 1415 | .90  | 22.86 | 1.24 | 31.50 | 1.33 | 33.78 | 810  | 3603 | 16.1 | 408.94 |
| <b>C5528</b> | 30 | 1047 | 1563 | 1.05 | 26.67 | 1.30 | 33.02 | 1.40 | 35.56 | 975  | 4337 | 16.8 | 426.72 |
| <b>C5529</b> | 40 | 1310 | 1955 | 1.20 | 30.48 | 1.42 | 36.07 | 1.51 | 38.35 | 1301 | 5788 | 18.3 | 464.82 |
| <b>C6064</b> | 50 | 1620 | 2418 | 1.35 | 34.29 | 1.60 | 40.64 | 1.66 | 42.16 | 1630 | 7251 | 20.5 | 520.70 |

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**12 AWG (7x20) Bare Copper • 14 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#239  
FT4 Flame Test



|              |    |      |      |      |       |      |       |      |       |      |      |      |        |
|--------------|----|------|------|------|-------|------|-------|------|-------|------|------|------|--------|
| <b>C5530</b> | 2  | 225  | 336  | .41  | 10.41 | .60  | 15.24 | .69  | 17.53 | 104  | 463  | 8.3  | 210.82 |
| <b>C5531</b> | 3  | 261  | 390  | .43  | 10.92 | .62  | 15.75 | .70  | 17.78 | 156  | 694  | 8.6  | 218.44 |
| <b>C5532</b> | 4  | 301  | 449  | .47  | 11.94 | .66  | 16.76 | .73  | 18.54 | 207  | 921  | 9.1  | 231.14 |
| <b>C5533</b> | 5  | 348  | 519  | .52  | 13.21 | .71  | 18.03 | .78  | 19.81 | 260  | 1157 | 9.1  | 231.14 |
| <b>C5534</b> | 6  | 435  | 649  | .59  | 14.99 | .78  | 19.81 | .86  | 21.84 | 310  | 1379 | 10.5 | 266.70 |
| <b>C5535</b> | 7  | 450  | 672  | .59  | 14.99 | .78  | 19.81 | .86  | 21.84 | 361  | 1606 | 10.5 | 266.70 |
| <b>C5536</b> | 8  | 506  | 755  | .64  | 16.26 | .83  | 21.08 | .92  | 23.37 | 415  | 1846 | 11.1 | 281.94 |
| <b>C5538</b> | 10 | 633  | 945  | .75  | 19.05 | 1.01 | 25.65 | 1.02 | 25.91 | 520  | 2313 | 13.3 | 337.82 |
| <b>C5540</b> | 12 | 696  | 1039 | .77  | 19.56 | 1.03 | 26.16 | 1.12 | 28.45 | 619  | 2754 | 13.5 | 342.90 |
| <b>C5543</b> | 15 | 823  | 1228 | .90  | 22.86 | 1.16 | 29.46 | 1.24 | 31.50 | 779  | 3465 | 15.1 | 383.54 |
| <b>C5548</b> | 20 | 1035 | 1545 | .99  | 25.15 | 1.25 | 31.75 | 1.34 | 34.04 | 1040 | 4627 | 16.5 | 419.10 |
| <b>C5553</b> | 25 | 1230 | 1836 | 1.10 | 27.94 | 1.36 | 34.54 | 1.45 | 36.83 | 1301 | 5788 | 17.6 | 447.04 |
| <b>C5558</b> | 30 | 1390 | 2075 | 1.20 | 30.48 | 1.46 | 37.08 | 1.51 | 38.35 | 1560 | 6940 | 17.6 | 447.04 |

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — number coded

## CSA Control Cable

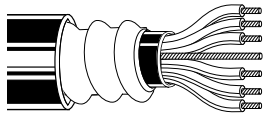
### 600V Teck90 Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

#### 10 AWG (7x18) Bare Copper • 12 AWG Bare Copper Ground Wire

##### Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

CSA C22.2#239  
FT4 Flame Test



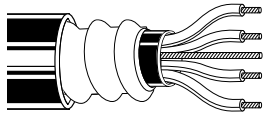
|              |    |      |      |      |       |      |       |      |       |      |      |      |        |
|--------------|----|------|------|------|-------|------|-------|------|-------|------|------|------|--------|
| <b>C5560</b> | 2  | 278  | 415  | .48  | 12.19 | .66  | 16.76 | .72  | 18.29 | 166  | 738  | 8.9  | 226.06 |
| <b>C5561</b> | 3  | 327  | 488  | .50  | 12.70 | .70  | 17.78 | .75  | 19.05 | 249  | 1108 | 9.2  | 233.68 |
| <b>C5562</b> | 4  | 405  | 604  | .57  | 14.48 | .77  | 19.56 | .79  | 20.07 | 330  | 1468 | 10.1 | 256.64 |
| <b>C5563</b> | 5  | 487  | 727  | .63  | 16.00 | .83  | 21.08 | .93  | 23.62 | 415  | 1846 | 11.5 | 292.10 |
| <b>C5564</b> | 6  | 556  | 830  | .68  | 17.27 | .88  | 22.35 | .93  | 23.62 | 491  | 2184 | 11.5 | 292.10 |
| <b>C5565</b> | 7  | 627  | 936  | .69  | 17.53 | .89  | 22.61 | .99  | 25.15 | 550  | 2447 | 11.8 | 299.72 |
| <b>C5566</b> | 8  | 739  | 1103 | .74  | 18.80 | .94  | 23.88 | 1.00 | 25.40 | 600  | 2669 | 12.4 | 314.96 |
| <b>C5568</b> | 10 | 964  | 1439 | .84  | 21.34 | 1.10 | 27.94 | 1.24 | 31.50 | 705  | 3136 | 14.4 | 365.76 |
| <b>C5570</b> | 12 | 1067 | 1593 | .93  | 23.62 | 1.19 | 30.23 | 1.26 | 32.00 | 809  | 3599 | 15.6 | 396.24 |
| <b>C5573</b> | 15 | 1297 | 1936 | .99  | 25.15 | 1.25 | 31.75 | 1.37 | 34.80 | 996  | 4431 | 16.3 | 414.02 |
| <b>C5578</b> | 20 | 1546 | 2307 | 1.13 | 28.70 | 1.39 | 35.31 | 1.47 | 37.34 | 1328 | 5908 | 16.9 | 429.26 |
| <b>C5579</b> | 25 | 1802 | 2690 | 1.26 | 32.00 | 1.52 | 38.61 | 1.60 | 40.64 | 1661 | 7389 | 19.7 | 500.38 |
| <b>C5580</b> | 30 | 2142 | 3197 | 1.34 | 34.04 | 1.60 | 40.64 | 1.66 | 42.16 | 1992 | 8862 | 20.6 | 523.24 |

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

#### 8 AWG (7x16) Bare Copper • 10 AWG Bare Copper Ground Wire

##### Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

CSA C22.2#239  
FT4 Flame Test



|              |   |     |     |     |       |     |       |     |       |     |      |      |        |
|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| <b>C5583</b> | 2 | 407 | 607 | .59 | 14.99 | .78 | 19.81 | .86 | 21.84 | 264 | 1174 | 10.6 | 269.24 |
| <b>C5581</b> | 3 | 471 | 703 | .63 | 16.00 | .83 | 21.08 | .90 | 22.86 | 396 | 1762 | 10.8 | 274.32 |
| <b>C5582</b> | 4 | 606 | 904 | .69 | 17.53 | .89 | 22.61 | .97 | 24.64 | 528 | 2349 | 12.5 | 317.50 |

Dual Rated 600V, 1000V  
HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — number coded



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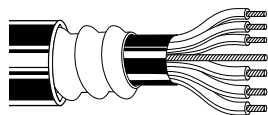
1-800-527-0010

**CSA Control Cable****600V Teck90 Cables**

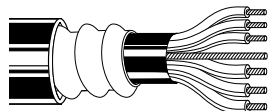
| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**Composite 14 AWG (7x22) and 12 AWG (7x20) Bare Copper • 14 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .031" (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

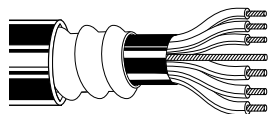
|                                 |             |                |     |     |     |       |     |       |     |       |     |     |      |        |
|---------------------------------|-------------|----------------|-----|-----|-----|-------|-----|-------|-----|-------|-----|-----|------|--------|
| CSA C22.2#239<br>FT4 Flame Test | <b>6054</b> | 3c/14<br>3c/12 | 369 | 551 | .58 | 14.73 | .75 | 19.05 | .89 | 22.61 | 202 | 899 | 10.2 | 259.08 |
|---------------------------------|-------------|----------------|-----|-----|-----|-------|-----|-------|-----|-------|-----|-----|------|--------|

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas**Composite 14 AWG (7x22) and 10 AWG (7x18) Bare Copper • 12 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .031" (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

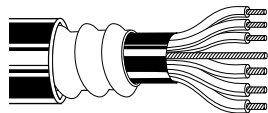
|                                 |             |                |     |     |     |       |     |       |     |       |     |      |      |        |
|---------------------------------|-------------|----------------|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| CSA C22.2#239<br>FT4 Flame Test | <b>6051</b> | 3c/14<br>3c/10 | 432 | 645 | .63 | 16.00 | .80 | 20.32 | .94 | 23.88 | 305 | 1357 | 10.8 | 274.32 |
|---------------------------------|-------------|----------------|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas**Composite 14 AWG (7x22) and 8 AWG (7x16) Bare Copper • 10 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .046" (1.17mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |             |               |     |     |     |       |     |       |      |       |     |      |      |        |
|---------------------------------|-------------|---------------|-----|-----|-----|-------|-----|-------|------|-------|-----|------|------|--------|
| CSA C22.2#239<br>FT4 Flame Test | <b>6059</b> | 3c/14<br>3c/8 | 608 | 907 | .70 | 17.78 | .87 | 22.10 | 1.07 | 27.18 | 435 | 1935 | 12.7 | 322.58 |
|---------------------------------|-------------|---------------|-----|-----|-----|-------|-----|-------|------|-------|-----|------|------|--------|

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas**Composite 14 AWG (7x22) and 6 AWG (7x14) Bare Copper • 8 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .061" (1.55mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |             |               |     |      |     |       |      |       |      |       |     |      |      |        |
|---------------------------------|-------------|---------------|-----|------|-----|-------|------|-------|------|-------|-----|------|------|--------|
| CSA C22.2#239<br>FT4 Flame Test | <b>6060</b> | 3c/14<br>3c/6 | 849 | 1267 | .89 | 22.61 | 1.15 | 29.21 | 1.27 | 32.26 | 655 | 2914 | 15.0 | 381.00 |
|---------------------------------|-------------|---------------|-----|------|-----|-------|------|-------|------|-------|-----|------|------|--------|

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
 4 conductors — Black, Red, Blue, White  
 5 or more conductors — number coded

# CSA Control Cable

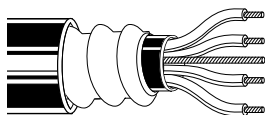
## 1000V Teck90 Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

### 14 AWG (7x22) Bare Copper • 14 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |     |     |     |       |     |       |     |       |     |     |     |        |
|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|-----|-----|--------|
| CSA C22.2#239  | <b>C5701</b> | 3 | 251 | 375 | .47 | 11.94 | .67 | 17.02 | .73 | 18.54 | 98  | 436 | 9.2 | 233.68 |
| FT4 Flame Test | <b>C5702</b> | 4 | 301 | 449 | .51 | 12.95 | .71 | 18.03 | .81 | 20.57 | 131 | 583 | 9.7 | 246.38 |

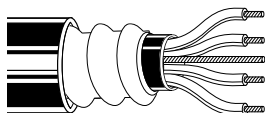


HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

### 12 AWG (7x20) Bare Copper • 14 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |     |     |     |       |     |       |     |       |     |     |      |        |
|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|-----|------|--------|
| CSA C22.2#239  | <b>C5730</b> | 2 | 253 | 378 | .48 | 12.19 | .68 | 17.27 | .74 | 18.80 | 104 | 463 | 9.3  | 236.22 |
| FT4 Flame Test | <b>C5731</b> | 3 | 291 | 434 | .51 | 12.95 | .71 | 18.03 | .76 | 19.30 | 156 | 694 | 9.7  | 246.38 |
|                | <b>C5732</b> | 4 | 368 | 549 | .59 | 14.99 | .79 | 20.07 | .85 | 21.59 | 207 | 921 | 10.8 | 274.32 |

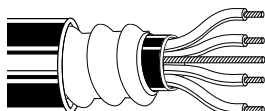


HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

### 10 AWG (7x18) Bare Copper • 12 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |     |     |     |       |     |       |     |       |     |      |      |        |
|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| CSA C22.2#239  | <b>C5760</b> | 2 | 285 | 425 | .56 | 14.22 | .76 | 19.30 | .79 | 20.07 | 166 | 738  | 10.3 | 261.62 |
| FT4 Flame Test | <b>C5761</b> | 3 | 389 | 581 | .59 | 14.99 | .79 | 20.07 | .85 | 21.59 | 249 | 1108 | 10.8 | 274.32 |
|                | <b>C5762</b> | 4 | 460 | 687 | .65 | 16.51 | .85 | 21.59 | .90 | 22.86 | 330 | 1468 | 11.5 | 292.10 |

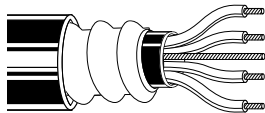


HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

### 8 AWG (7x16) Bare Copper • 10 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |     |     |     |       |     |       |     |       |     |      |      |        |
|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| CSA C22.2#239  | <b>C5583</b> | 2 | 407 | 607 | .59 | 14.99 | .78 | 19.81 | .86 | 21.84 | 264 | 1174 | 10.6 | 269.24 |
| FT4 Flame Test | <b>C5581</b> | 3 | 471 | 703 | .63 | 16.00 | .83 | 21.08 | .90 | 22.86 | 396 | 1762 | 10.8 | 274.32 |
|                | <b>C5582</b> | 4 | 606 | 905 | .69 | 17.53 | .89 | 22.61 | .97 | 24.64 | 528 | 2349 | 12.5 | 317.50 |



Dual Rated 600V, 100V  
HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — number coded



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1-800-527-0010

# CSA Control Cable

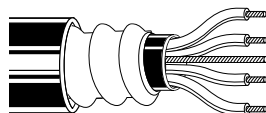
## 1000V Teck90 Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

### 6 AWG (7x14) Bare Copper • 8 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |     |      |     |       |      |       |      |       |     |      |      |        |
|----------------|--------------|---|-----|------|-----|-------|------|-------|------|-------|-----|------|------|--------|
| CSA C22.2#239  | <b>C5590</b> | 2 | 567 | 846  | .73 | 18.54 | .99  | 25.15 | 1.10 | 27.94 | 420 | 1868 | 12.8 | 325.12 |
| FT4 Flame Test | <b>C5591</b> | 3 | 714 | 1066 | .78 | 19.81 | 1.04 | 26.42 | 1.15 | 29.21 | 630 | 2803 | 13.4 | 340.36 |
|                | <b>C5592</b> | 4 | 927 | 1384 | .89 | 22.61 | 1.15 | 29.21 | 1.24 | 31.50 | 840 | 3737 | 14.9 | 378.46 |

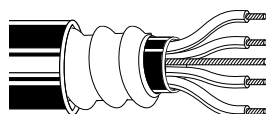


HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

### 4 AWG (7x12) Bare Copper • 8 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |      |      |     |       |      |       |      |       |      |      |      |        |
|----------------|--------------|---|------|------|-----|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#239  | <b>C5601</b> | 3 | 961  | 1434 | .91 | 23.11 | 1.17 | 29.72 | 1.23 | 31.24 | 1002 | 4458 | 15.2 | 386.08 |
| FT4 Flame Test | <b>C5602</b> | 4 | 1202 | 1794 | .99 | 25.15 | 1.25 | 31.75 | 1.33 | 33.78 | 1236 | 5498 | 16.2 | 411.48 |

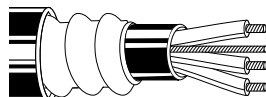


HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

### 3 AWG (7x11) Bare Copper • 6 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |      |      |     |       |      |       |      |       |      |      |      |        |
|----------------|--------------|---|------|------|-----|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#239  | <b>C5611</b> | 3 | 1126 | 1681 | .97 | 24.64 | 1.23 | 31.24 | 1.30 | 33.02 | 1263 | 5619 | 15.8 | 401.32 |
| FT4 Flame Test |              |   |      |      |     |       |      |       |      |       |      |      |      |        |

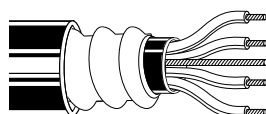


HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

### 2 AWG (7x10) Bare Copper • 6 AWG Bare Copper Ground Wire

#### Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

|                |              |   |      |      |      |       |      |       |      |       |      |      |      |        |
|----------------|--------------|---|------|------|------|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#239  | <b>C5621</b> | 3 | 1291 | 1927 | 1.02 | 25.91 | 1.28 | 32.51 | 1.37 | 34.80 | 1593 | 7087 | 16.5 | 419.10 |
| FT4 Flame Test | <b>C5622</b> | 4 | 1691 | 2524 | 1.12 | 28.45 | 1.38 | 35.05 | 1.48 | 37.59 | 2124 | 9449 | 17.7 | 449.58 |



HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — number coded



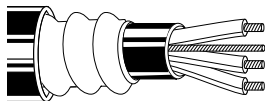


**CSA Control Cable****1000V Teck90 Cables**

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**1 AWG (19x14) Bare Copper • 6 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

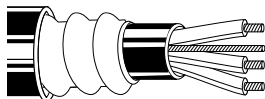
|                |              |   |      |      |      |       |      |       |      |       |      |      |      |        |
|----------------|--------------|---|------|------|------|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#239  | <b>C5625</b> | 3 | 1620 | 2418 | 1.25 | 31.75 | 1.51 | 38.35 | 1.59 | 40.39 | 1980 | 8808 | 19.5 | 495.30 |
| FT4 Flame Test |              |   |      |      |      |       |      |       |      |       |      |      |      |        |



HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**1/0 AWG (19x12) Bare Copper • 6 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                |              |   |      |      |      |       |      |       |      |       |      |       |      |        |
|----------------|--------------|---|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| CSA C22.2#239  | <b>C5627</b> | 3 | 1912 | 2854 | 1.34 | 34.04 | 1.60 | 40.64 | 1.67 | 42.42 | 2500 | 11122 | 20.6 | 523.24 |
| FT4 Flame Test |              |   |      |      |      |       |      |       |      |       |      |       |      |        |



HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
 4 conductors — Black, Red, Blue, White  
 5 or more conductors — number coded



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## Technical Information

### Color Code Tables

**ICEA Table E1\***

| Cond. No. | Base Color | Tracer | Tracer | Cond. No. | Base Color | Tracer | Tracer |
|-----------|------------|--------|--------|-----------|------------|--------|--------|
| 1         | Black      | —      | —      | 26        | Orange     | Black  | White  |
| 2         | White      | —      | —      | 27        | Blue       | Black  | White  |
| 3         | Red        | —      | —      | 28        | Black      | Red    | Green  |
| 4         | Green      | —      | —      | 29        | White      | Red    | Green  |
| 5         | Orange     | —      | —      | 30        | Red        | Black  | Green  |
| 6         | Blue       | —      | —      | 31        | Green      | Black  | Orange |
| 7         | White      | Black  | —      | 32        | Orange     | Black  | Green  |
| 8         | Red        | Black  | —      | 33        | Blue       | White  | Orange |
| 9         | Green      | Black  | —      | 34        | Black      | White  | Orange |
| 10        | Orange     | Black  | —      | 35        | White      | Red    | Orange |
| 11        | Blue       | Black  | —      | 36        | Orange     | White  | Blue   |
| 12        | Black      | White  | —      | 37        | White      | Red    | Blue   |
| 13        | Red        | White  | —      | 38        | Black      | White  | Green  |
| 14        | Green      | White  | —      | 39        | White      | Black  | Green  |
| 15        | Blue       | White  | —      | 40        | Red        | White  | Green  |
| 16        | Black      | Red    | —      | 41        | Green      | White  | Blue   |
| 17        | White      | Red    | —      | 42        | Orange     | Red    | Green  |
| 18        | Orange     | Red    | —      | 43        | Blue       | Red    | Green  |
| 19        | Blue       | Red    | —      | 44        | Black      | White  | Blue   |
| 20        | Red        | Green  | —      | 45        | White      | Black  | Blue   |
| 21        | Orange     | Green  | —      | 46        | Red        | White  | Blue   |
| 22        | Black      | White  | Red    | 47        | Green      | Orange | Red    |
| 23        | White      | Black  | Red    | 48        | Orange     | Red    | Blue   |
| 24        | Red        | Black  | White  | 49        | Blue       | Red    | Orange |
| 25        | Green      | Black  | White  | 50        | Black      | Orange | Red    |

Pair cables are Black, White and numbered. Triad cables are Black, White, Red and numbered.

**ICEA Table E2\***

| Cond. No. | Base Color | Tracer | Cond. No. | Base Color | Tracer |
|-----------|------------|--------|-----------|------------|--------|
| 1         | Black      | —      | 19        | Orange     | Blue   |
| 2         | Red        | —      | 20        | Yellow     | Blue   |
| 3         | Blue       | —      | 21        | Brown      | Blue   |
| 4         | Orange     | —      | 22        | Black      | Orange |
| 5         | Yellow     | —      | 23        | Red        | Orange |
| 6         | Brown      | —      | 24        | Blue       | Orange |
| 7         | Red        | Black  | 25        | Yellow     | Orange |
| 8         | Blue       | Black  | 26        | Brown      | Orange |
| 9         | Orange     | Black  | 27        | Black      | Yellow |
| 10        | Yellow     | Black  | 28        | Red        | Yellow |
| 11        | Brown      | Black  | 29        | Blue       | Yellow |
| 12        | Black      | Red    | 30        | Orange     | Yellow |
| 13        | Blue       | Red    | 31        | Brown      | Yellow |
| 14        | Orange     | Red    | 32        | Black      | Brown  |
| 15        | Yellow     | Red    | 33        | Red        | Brown  |
| 16        | Brown      | Red    | 34        | Blue       | Brown  |
| 17        | Black      | Blue   | 35        | Orange     | Brown  |
| 18        | Red        | Blue   | 36        | Yellow     | Brown  |

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered. Colors repeat after 36 conductors. There are no Green or White conductors or stripes.

\*Reference ICEA S-73-532

**ICEA Method 4: All conductors Black\***

| Cond.            | Conductor Printing   | Cond.            | Conductor Printing   |
|------------------|----------------------|------------------|----------------------|
| 1 <sup>st</sup>  | "1-ONE-1"            | 26 <sup>th</sup> | "26-TWENTY-SIX-26"   |
| 2 <sup>nd</sup>  | "2-TWO-2"            | 27 <sup>th</sup> | "27-TWENTY-SEVEN-27" |
| 3 <sup>rd</sup>  | "3-THREE-3"          | 28 <sup>th</sup> | "28-TWENTY-EIGHT-28" |
| 4 <sup>th</sup>  | "4-FOUR-4"           | 29 <sup>th</sup> | "29-TWENTY-NINE-29"  |
| 5 <sup>th</sup>  | "5-FIVE-5"           | 30 <sup>th</sup> | "30-THIRTY-30"       |
| 6 <sup>th</sup>  | "6-SIX-6"            | 31 <sup>st</sup> | "31-THIRTY-ONE-31"   |
| 7 <sup>th</sup>  | "7-SEVEN-7"          | 32 <sup>nd</sup> | "32-THIRTY-TWO-32"   |
| 8 <sup>th</sup>  | "8-EIGHT-8"          | 33 <sup>rd</sup> | "33-THIRTY-THREE-33" |
| 9 <sup>th</sup>  | "9-NINE-9"           | 34 <sup>th</sup> | "34-THIRTY-FOUR-34"  |
| 10 <sup>th</sup> | "10-TEN-10"          | 35 <sup>th</sup> | "35-THIRTY-FIVE-35"  |
| 11 <sup>th</sup> | "11-ELEVEN-11"       | 36 <sup>th</sup> | "36-THIRTY-SIX-36"   |
| 12 <sup>th</sup> | "12-TWELVE-12"       | 37 <sup>th</sup> | "37-THIRTY-SEVEN-37" |
| 13 <sup>th</sup> | "13-THIRTEEN-13"     | 38 <sup>th</sup> | "38-THIRTY-EIGHT-38" |
| 14 <sup>th</sup> | "14-FOURTEEN-14"     | 39 <sup>th</sup> | "39-THIRTY-NINE-39"  |
| 15 <sup>th</sup> | "15-FIFTEEN-15"      | 40 <sup>th</sup> | "40-FORTY-40"        |
| 16 <sup>th</sup> | "16-SIXTEEN-16"      | 41 <sup>st</sup> | "41-FORTY-ONE-41"    |
| 17 <sup>th</sup> | "17-SEVENTEEN-17"    | 42 <sup>nd</sup> | "42-FORTY-TWO-42"    |
| 18 <sup>th</sup> | "18-EIGHTEEN-18"     | 43 <sup>rd</sup> | "43-FORTY-THREE-43"  |
| 19 <sup>th</sup> | "19-NINETEEN-19"     | 44 <sup>th</sup> | "44-FORTY-FOUR-44"   |
| 20 <sup>th</sup> | "20-TWENTY-20"       | 45 <sup>th</sup> | "45-FORTY-FIVE-45"   |
| 21 <sup>st</sup> | "21-TWENTY-ONE-21"   | 46 <sup>th</sup> | "46-FORTY-SIX-46"    |
| 22 <sup>nd</sup> | "22-TWENTY-TWO-22"   | 47 <sup>th</sup> | "47-FORTY-SEVEN-47"  |
| 23 <sup>rd</sup> | "23-TWENTY-THREE-23" | 48 <sup>th</sup> | "48-FORTY-EIGHT-48"  |
| 24 <sup>th</sup> | "24-TWENTY-FOUR-24"  | 49 <sup>th</sup> | "49-FORTY-NINE-49"   |
| 25 <sup>th</sup> | "25-TWENTY-FIVE-25"  | 50 <sup>th</sup> | "50-FIFTY-50"        |

## Technical Information

### Gland Information for Armored Cables

#### Thomas and Betts

| Part No.  | Hub Size NPT | Range Over Jacket |        |         |        |
|-----------|--------------|-------------------|--------|---------|--------|
|           |              | Minimum           |        | Maximum |        |
|           |              | Inch              | mm     | Inch    | mm     |
| ST050-462 | 1/2          | .525              | 13.34  | .650    | 16.51  |
| ST050-464 | 1/2          | .600              | 15.24  | .760    | 19.30  |
| ST050-465 | 1/2          | .725              | 18.42  | .885    | 22.48  |
| ST050-466 | 1/2          | .825              | 20.96  | .985    | 25.02  |
| ST075-467 | 3/4          | .880              | 22.35  | 1.065   | 27.05  |
| ST075-468 | 3/4          | 1.025             | 26.04  | 1.205   | 30.61  |
| ST100-469 | 1            | 1.187             | 30.15  | 1.375   | 34.93  |
| ST125-470 | 1-1/4        | 1.350             | 34.29  | 1.625   | 41.28  |
| ST125-550 | 1-1/4        | 1.500             | 38.10  | 1.625   | 41.28  |
| ST125-471 | 1-1/4        | 1.600             | 40.64  | 1.875   | 47.63  |
| ST150-472 | 1-1/2        | 1.700             | 43.18  | 1.965   | 49.91  |
| ST150-473 | 1-1/2        | 1.900             | 48.26  | 2.187   | 55.55  |
| ST200-551 | 2            | 1.900             | 48.26  | 2.187   | 55.55  |
| ST200-474 | 2            | 2.100             | 53.34  | 2.375   | 60.33  |
| ST200-475 | 2            | 2.300             | 58.42  | 2.565   | 65.15  |
| ST200-476 | 2            | 2.500             | 63.50  | 2.750   | 69.85  |
| ST250-477 | 2-1/2        | 2.380             | 60.45  | 2.640   | 67.06  |
| ST250-478 | 2-1/2        | 2.580             | 65.53  | 2.840   | 72.14  |
| ST300-479 | 3            | 2.790             | 70.87  | 3.060   | 77.72  |
| ST300-480 | 3            | 3.000             | 76.20  | 3.270   | 83.06  |
| ST300-481 | 3            | 3.210             | 81.53  | 3.480   | 88.39  |
| ST350-482 | 3-1/2        | 3.420             | 86.67  | 3.690   | 93.73  |
| ST350-483 | 3-1/2        | 3.610             | 91.69  | 3.870   | 98.30  |
| ST400-484 | 4            | 3.810             | 96.77  | 4.030   | 102.36 |
| ST400-485 | 4            | 3.965             | 100.71 | 4.185   | 106.30 |
| ST400-486 | 4            | 4.120             | 104.65 | 4.340   | 110.24 |

#### Crouse Hinds

| NPT Thread Size | Armor OD Range (Inch) | Non-Hazardous Part No. | Hazardous Part No. |
|-----------------|-----------------------|------------------------|--------------------|
| 1/2             | .440 to .650          | TMC165                 | TMCX165*           |
| 3/4             | .600 to .850          | TMC285                 | TMCX285*           |
| 1               | .800 to 1.120         | TMC3112                | TMCX3112*          |
| 1-1/4           | 1.100 to 1.400        | TMC4140                | TMCX4140*          |
| 1-1/2           | 1.330 to 1.610        | TMC5161                | TMCX5161*          |
| 2               | 1.570 to 2.060        | TMC6206                | TMCX6206*          |
| 2-1/2           | 1.930 to 2.470        | TMC7247                | TMCX7247*          |
| 3               | 2.450 to 3.020        | TMC8302                | TMCX8302           |
| 3-1/2           | 2.950 to 3.520        | TMC9352                | TMCX9352           |
| 4               | 3.500 to 4.020        | TMC10402               | TMCX10402          |

\*TMCX Catalog numbers listed are suitable for use with Type TC tray cable in hazardous locations when installed in accordance with NEC Articles 501-5(e) and 502-5. TMCX series is not suitable for use in Class III locations when used with tray cable.

#### Hawke

| Hawke<br>Size<br>Ref. | Standard Seal 1348<br>Diameter |       |         |        | Alternative Seal 1498<br>Diameter |       |         |       | NPT<br>Size |
|-----------------------|--------------------------------|-------|---------|--------|-----------------------------------|-------|---------|-------|-------------|
|                       | Minimum                        |       | Maximum |        | Minimum                           |       | Maximum |       |             |
|                       | Inch                           | mm    | Inch    | mm     | Inch                              | mm    | Inch    | mm    |             |
| 711-A                 | .590                           | 14.99 | .820    | 20.83  | .470                              | 11.94 | .610    | 15.49 | 1/2         |
| 711-B                 | .790                           | 20.07 | .060    | 26.92  | .630                              | 16.00 | .840    | 21.34 | 3/4         |
| 711-C                 | .930                           | 23.62 | 1.310   | 33.27  | .830                              | 21.08 | 1.090   | 27.69 | 1           |
| 711-C2                | 1.260                          | 32.00 | 1.690   | 42.93  | 1.100                             | 27.94 | 1.340   | 34.04 | 1-1/4       |
| 711-D                 | 1.690                          | 42.93 | 2.060   | 52.32  | 1.300                             | 33.02 | 1.610   | 40.89 | 2           |
| 711-E                 | 2.050                          | 52.07 | 2.560   | 65.02  | 1.810                             | 45.97 | 2.160   | 54.86 | 2-1/2       |
| 711-F                 | 2.560                          | 65.02 | 3.070   | 77.98  | 2.240                             | 56.90 | 2.640   | 67.06 | 3           |
| 711-H                 | 2.990                          | 75.95 | 3.520   | 89.41  | Special Order                     |       |         |       | 3-1/2       |
| 711-J                 | 3.500                          | 88.90 | 4.110   | 104.39 | Special Order                     |       |         |       | 4           |

#### Adalet — PLM

| Part<br>No. ** | Diameter Over Jacket |        |         |        | Conduit<br>Size |
|----------------|----------------------|--------|---------|--------|-----------------|
|                | Minimum              |        | Maximum |        |                 |
|                | Inch                 | mm     | Inch    | mm     |                 |
| PS/PSX 45-05   | .350                 | 8.89   | .450    | 11.43  | 1/2             |
| PS/PSX 55-05   | .450                 | 11.43  | .550    | 13.97  | 1/2             |
| PS/PSX 65-05   | .550                 | 13.97  | .650    | 16.51  | 1/2             |
| PS/PSX 75-05   | .650                 | 16.51  | .750    | 19.05  | 1/2             |
| PS/PSX 85-05   | .750                 | 19.05  | .850    | 21.59  | 1/2             |
| PS/PSX 95-05   | .850                 | 21.59  | .950    | 24.13  | 1/2             |
| PS/PSX 99-07   | .850                 | 21.59  | .990    | 25.15  | 3/4             |
| PS/PSX 107-07  | .920                 | 23.37  | 1.070   | 27.18  | 3/4             |
| PS/PSX 113-07  | .980                 | 24.89  | 1.130   | 28.70  | 3/4             |
| PS/PSX 121-07  | 1.070                | 27.18  | 1.210   | 30.73  | 3/4             |
| PS/PSX 112-10  | 1.000                | 25.40  | 1.120   | 28.45  | 1               |
| PS/PSX 125-10  | 1.120                | 28.45  | 1.250   | 31.25  | 1               |
| PS/PSX 138-10  | 1.220                | 30.99  | 1.380   | 35.05  | 1               |
| PS/PSX 138-12  | 1.280                | 32.51  | 1.380   | 35.05  | 1-1/4           |
| PS/PSX 156-12  | 1.380                | 35.05  | 1.560   | 39.62  | 1-1/4           |
| PS/PSX 174-12  | 1.560                | 39.62  | 1.740   | 44.20  | 1-1/4           |
| PS/PSX 188-12  | 1.740                | 44.20  | 1.880   | 47.75  | 1-1/4           |
| PS/PSX 174-15  | 1.600                | 40.64  | 1.740   | 44.20  | 1-1/2           |
| PS/PSX 188-15  | 1.740                | 44.20  | 1.880   | 47.75  | 1-1/2           |
| PS/PSX 200-15  | 1.880                | 47.75  | 2.000   | 50.80  | 1-1/2           |
| PS/PSX 218-15  | 2.000                | 50.80  | 2.180   | 55.37  | 1-1/2           |
| PS/PSX 219-20  | 2.050                | 52.07  | 2.190   | 55.63  | 2               |
| PS/PSX 236-20  | 2.190                | 55.63  | 2.360   | 59.94  | 2               |
| PS/PSX 247-20  | 2.350                | 59.69  | 2.470   | 62.74  | 2               |
| PS/PSX 261-20  | 2.470                | 62.74  | 2.610   | 66.29  | 2               |
| PS/PSX 263-25  | 2.460                | 62.48  | 2.630   | 66.80  | 2-1/2           |
| PS/PSX 280-25  | 2.620                | 66.55  | 2.800   | 71.12  | 2-1/2           |
| PS/PSX 296-25  | 2.800                | 71.12  | 2.960   | 75.18  | 2-1/2           |
| PS/PSX 297-30  | 2.800                | 71.12  | 2.970   | 75.44  | 3               |
| PS/PSX 311-30  | 2.950                | 74.93  | 3.110   | 78.99  | 3               |
| PS/PSX 327-30  | 3.100                | 78.74  | 3.270   | 83.06  | 3               |
| PS/PSX 343-30  | 3.260                | 82.80  | 3.430   | 87.12  | 3               |
| PS/PSX 359-30  | 3.420                | 86.87  | 3.590   | 91.19  | 3               |
| PS/PSX 375-35  | 3.520                | 89.41  | 3.750   | 95.25  | 3-1/2           |
| PS/PSX 392-35  | 3.750                | 95.25  | 3.920   | 99.57  | 3-1/2           |
| PS/PSX 412-35  | 3.900                | 99.06  | 4.120   | 104.65 | 3-1/2           |
| PS/PSX 423-40  | 4.050                | 102.87 | 4.230   | 107.44 | 4               |
| PS/PSX 437-40  | 4.200                | 106.68 | 4.370   | 111.00 | 4               |
| PS/PSX 451-40  | 4.340                | 110.24 | 4.510   | 114.55 | 4               |
| PS/PSX 462-40  | 4.430                | 112.52 | 4.620   | 117.35 | 4               |

\*\* Use PS for non-hazardous locations and PSX for hazardous locations.



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1-800-527-0010

## Technical Information

### Approvals and Standards/Performance Data for Halogen Free/Low Smoke Cable

| XLPE Insulation                |                                      |
|--------------------------------|--------------------------------------|
| Physical: (per UL-44)          |                                      |
| Tensile (min)                  | 1500 psi                             |
| Elongation (min)               | 150%                                 |
| Deformation (max)              | 3.35                                 |
| LOI                            | 27                                   |
| Halogen content by weight      | <0.2%                                |
| NBS Smoke Chamber (.035" wall) |                                      |
| Flaming Mode                   | 66 D <sub>m</sub> corrected typical  |
| Smoldering Mode                | 183 D <sub>m</sub> corrected typical |

| Haloarrest® I Jacket           |                                      |
|--------------------------------|--------------------------------------|
| Physical                       |                                      |
| Tensile (min)                  | 1500 psi                             |
| Elongation (min)               | 100%                                 |
| Tear resistance                | 74 lbs/inch                          |
| LOI                            | 38                                   |
| Halogen Content                |                                      |
| IEC 754-1                      | 0%                                   |
| BS6425                         | 0%                                   |
| MIL-C-24643                    | <0.2%                                |
| NBS Smoke Chamber (.100" wall) |                                      |
| Flaming Mode                   | 141 D <sub>m</sub> corrected typical |
| Smoldering Mode                | 311 D <sub>m</sub> corrected typical |
| Acid Gas                       |                                      |
| IEC 754-2                      | 4.3 pH, 28 µS/cm                     |
| VDE 0472 Part 813              | 4.3 pH, 27 µS/cm                     |
| Toxicity Index                 |                                      |
| NES 713                        | 1                                    |

### Halogen Free/Low Smoke Cable Specifications

#### 300V, 90°C PLTC-LS NEC 725/UL 13 & 1685

##### Instrumentation

- 22 to 12 AWG, BC or TC
- 90°C XLPE insulation
- Unshielded or shielded
- Haloarrest I jacket

#### 600V, 90°C TC-LS NEC 340/UL 1277 & 1685

##### Instrumentation

- 18 to 12 AWG, BC or TC
- 90°C XLPE insulation
- UL 44 RH or RHH – 90°C dry
- Shielded or unshielded
- Haloarrest I jacket

##### Control or Power

- 14 to 2 AWG, BC or TC
- 90°C XLPE insulation
- UL 44 RH or RHH – 90°C dry
- Shielded or unshielded
- Haloarrest I jacket

### Hazardous Locations Cable Reference

#### Article 500

##### Class I Division 1 Hazards

- Locations where flammable gases or vapors may exist under normal operating conditions, under frequent repair or maintenance operations, or where breakdown or faulty operation of process equipment might also cause simultaneous failure of electrical equipment.
- Use conduit or MI cable with approved termination fittings.

##### Class I Division 2 Hazards

- Locations where flammable gases, vapors or volatile liquids are handled either in a closed system, or confined within suitable enclosures, or where hazardous concentrations are normally prevented by positive mechanical ventilation. Areas adjacent to Division 1 areas belong in Division 2.
- Use PLTC, ITC, TC, MC, MV, MI with approved termination fittings.

##### Class II Division 1

- Locations where combustible dusts exist under normal conditions.
- Use conduit or MI with approved termination fittings.

##### Class II Division 2

- Locations where combustible dusts exist under abnormal conditions.
- Use conduit or PLTC, ITC, TC, MC with ventilated channel cable trays.
- Use conduit or MC, MI with approved termination fittings.

##### Class III Division 1

- Locations where easily ignitable fibers and flyings exist under normal conditions.
- Use conduit or MC, MI with approved termination fittings.

##### Class III Division 2

- Locations where easily ignitable fibers and flyings exist under abnormal conditions.
- Use conduit or MC, MI with approved termination fittings.

#### Article 504

##### Intrinsically Safe

- Equipment and wiring that are incapable of releasing sufficient electrical energy under normal or abnormal conditions to cause ignition of a specific hazardous atmospheric mixture in its most easily ignited concentration.



## Technical Information

### UL Approved Insulation/Jacketing Options

| UL Listed for PLTC |                  |
|--------------------|------------------|
| Insulation/Jacket  | Max. Temp Rating |
| XLPE/PVC           | 90°C             |
| XLPE/CPE           | 90°C             |
| PVC/PVC            | 105°C            |
| PVC/CPE            | 105°C            |
| PE/PVC             | 75°C             |
| FPE/PVC            | 75°C             |
| TPE/TPE            | 105°C            |
| XLPE/Haloarrest® I | 90°C             |
| XLPE/Hypalon®      | 90°C             |
| FEP/FEP            | 200°C            |

| UL Listed for MC and TC                      |                  |      |                                          |  |
|----------------------------------------------|------------------|------|------------------------------------------|--|
| Insulation/Jacket                            | Max. Temp Rating |      | Flame Tests                              |  |
|                                              | Wet              | Dry  |                                          |  |
| PVC-Nylon/PVC (THHN or THWN) 14 AWG & larger | 75°C             | 90°C | UL 1581 FT4/IEEE 1202                    |  |
| PVC-Nylon/PVC (TFN or TFFN) 16 & 18 AWG      | NA               | 90°C | UL 1581 FT4/IEEE 1202                    |  |
| XLPE (XHHW-2)/PVC or CPE 14 AWG & larger     | 90°C             | 90°C | UL 1581 FT4/IEEE 1202 VW-1 rated singles |  |
| XLPE (RFH-2)/PVC or CPE 16 & 18 AWG          | 75°C             | 75°C | UL 1581 FT4/IEEE 1202 VW-1 rated singles |  |
| FRPO/PVC 18 AWG & larger                     | —                | 75°C | UL 1581                                  |  |
| TPE/TPE                                      | 75°C             | 90°C | UL 1581                                  |  |
| FRPO/PVC                                     | 75°C             | 90°C | UL 1581                                  |  |
| XLPE/Haloarrest I (XHHW-2) 14 AWG & larger   | 90°C             | 90°C | UL 1581 VW-1 rated singles               |  |
| XLPE/Haloarrest I 16 & 18 AWG (RFH-2)        | 75°C             | 75°C | UL 1581                                  |  |
| FEP/PVC                                      | 90°C             | 90°C | UL 1581                                  |  |
| XLPE/Hypalon (XHHW-2) 14 AWG & larger        | 90°C             | 90°C | UL 1581 VW-1 rated singles               |  |
| XLPE/Hypalon (RFH-2) 16 & 18 AWG             | 75°C             | 75°C | UL 1581 VW-1 rated singles               |  |

### Abbreviations Key

|             |                                                                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CPE</b>  | Chlorinated Polyethylene                                                                                                                                                  |
| <b>FEP</b>  | Fluorinated Ethylene-propylene                                                                                                                                            |
| <b>FPE</b>  | Foam Polyethylene                                                                                                                                                         |
| <b>FRPO</b> | Flame-Retardant Polyolefin                                                                                                                                                |
| <b>PE</b>   | Polyethylene                                                                                                                                                              |
| <b>PVC</b>  | Polyvinyl Chloride<br>Nylon insulated singles are type THHN or THWN for conductors 14 AWG or larger. Conductor sizes 16 and 18 AWG are Type TFN or TFFN singles.          |
| <b>TPE</b>  | Thermoplastic Elastomer                                                                                                                                                   |
| <b>XLPE</b> | Cross-Linked Polyethylene<br>Cross-Linked Polyethylene (XLPE) insulated singles are type XHHW-2 for conductors 14 AWG or larger. Conductor sizes 16 and 18 AWG are RFH-2. |

### Vertical Tray Flame Test Comparison

| Test                                 | UL-1581                                                                                               | FT4/IEEE 1202                                                        | IEEE 383                                                                                              | IEC 323-3                                                                    | ICEA T-29-520                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Flame Test Chamber</b>            | Vertical Tray                                                                                         | Vertical Tray                                                        | Vertical Tray                                                                                         | Vertical Tray                                                                | Vertical Tray                                                                                         |
| <b>Burner Type</b>                   | Ribbon gas burner                                                                                     | Ribbon gas burner                                                    | Ribbon gas burner                                                                                     | Ribbon gas burner                                                            | Ribbon gas burner                                                                                     |
| <b>Theoretical Heat Input</b>        | 70,000 BTU/hr                                                                                         | 70,000 BTU/hr                                                        | 70,000 BTU/hr                                                                                         | 70,000 BTU/hr                                                                | 210,000 BTU/hr                                                                                        |
| <b>Burner Positioning</b>            | horizontal 3" from samples<br>18" from tray base                                                      | 20° up from horizontal 2.95" from cable surface<br>11.8" above floor | horizontal 3" from samples<br>18" above tray bottom                                                   | horizontal 2.95" from cable surface<br>23.6" above floor                     | horizontal 8-1/4" from cable surface<br>12-1/4" above tray base                                       |
| <b>Tray Dimensions</b>               | 8' length<br>12" width<br>3" side flanges                                                             | 9.84' length<br>11.81" width<br>2.85" side flanges                   | 8' length<br>12" width<br>3" side flanges                                                             | 11.5' length<br>19.7" width<br>none                                          | 8' length<br>12" width<br>3" side flanges                                                             |
| <b>Sample Spacing</b>                | 1/2 cable diameter                                                                                    | 1/2 cable diameter                                                   | 1/2 cable diameter                                                                                    | lesser of 1/2 cable diameter and .78"                                        | 1/2 cable diameter                                                                                    |
| <b>Duration of Flame Application</b> | 20 minutes                                                                                            | 20 minutes                                                           | 20 minutes                                                                                            | 20 minutes                                                                   | 20 minutes                                                                                            |
| <b>Mode of Failure</b>               | Cable blistering or charring has reached the top of the sample after the cable has self-extinguished. | Cable char has exceeded a length of 4.92'.                           | Cable blistering or charring has reached the top of the sample after the cable has self-extinguished. | Cable charring has reached a height of 98.4" above the bottom of the burner. | Cable blistering or charring has reached the top of the sample after the cable has self-extinguished. |

Hypalon is DuPont trademark.



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# Technical Information



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The information, graphs, tables and illustrations presented in this section are provided to assist Belden customers with the selection of the most appropriate cable for their application.

For further assistance, contact Belden Technical Support at:  
**1-800-BELDEN-1.**

## Conductors

Table 1: Solid Copper Wire, American Wire Gage

| Gage<br>(AWG) | Nominal OD |      | Nominal<br>Circular MIL Area | Nominal Weight<br>(Lbs. per 1000 Ft.) | Nominal<br>Resistance @ 68°F<br>( $\Omega$ /1000 Ft.) |
|---------------|------------|------|------------------------------|---------------------------------------|-------------------------------------------------------|
|               | Inches     | mm   |                              |                                       |                                                       |
| 10            | .1019      | 2.60 | 10380.0                      | 31.43                                 | .9989                                                 |
| 11            | .0907      | 2.30 | 8234.0                       | 24.92                                 | 1.260                                                 |
| 12            | .0808      | 2.05 | 6530.0                       | 19.77                                 | 1.588                                                 |
| 13            | .0720      | 1.83 | 5178.0                       | 15.68                                 | 2.003                                                 |
| 14            | .0641      | 1.63 | 4107.0                       | 12.43                                 | 2.525                                                 |
| 15            | .0571      | 1.45 | 3260.0                       | 9.858                                 | 3.184                                                 |
| 16            | .0508      | 1.29 | 2583.0                       | 7.818                                 | 4.016                                                 |
| 17            | .0453      | 1.15 | 2050.0                       | 6.200                                 | 5.064                                                 |
| 18            | .0403      | 1.02 | 1620.0                       | 4.917                                 | 6.385                                                 |
| 19            | .0359      | .912 | 1200.0                       | 3.899                                 | 8.051                                                 |
| 20            | .0320      | .813 | 1020.0                       | 3.092                                 | 10.15                                                 |
| 21            | .0285      | .724 | 812.1                        | 2.452                                 | 12.80                                                 |
| 22            | .0253      | .643 | 640.4                        | 1.945                                 | 16.14                                                 |
| 23            | .0226      | .574 | 511.5                        | 1.542                                 | 20.36                                                 |
| 24            | .0201      | .511 | 404.0                        | 1.223                                 | 25.67                                                 |
| 25            | .0179      | .455 | 320.4                        | .9699                                 | 32.37                                                 |
| 26            | .0159      | .404 | 253.0                        | .7692                                 | 40.81                                                 |
| 27            | .0142      | .361 | 201.5                        | .6100                                 | 51.47                                                 |
| 28            | .0126      | .320 | 159.8                        | .4837                                 | 64.90                                                 |
| 29            | .0113      | .287 | 126.7                        | .3836                                 | 81.83                                                 |
| 30            | .0100      | .254 | 100.5                        | .3042                                 | 103.2                                                 |
| 31            | .0089      | .226 | 79.7                         | .2413                                 | 130.1                                                 |
| 32            | .0080      | .203 | 63.21                        | .1913                                 | 164.1                                                 |
| 33            | .0071      | .180 | 50.13                        | .1517                                 | 206.9                                                 |
| 34            | .0063      | .160 | 39.75                        | .1203                                 | 260.9                                                 |
| 35            | .0056      | .142 | 31.52                        | .09542                                | 331.0                                                 |
| 36            | .0050      | .127 | 25.00                        | .07568                                | 414.8                                                 |
| 37            | .0045      | .114 | 19.83                        | .0613                                 | 512.1                                                 |
| 38            | .0040      | .102 | 15.72                        | .04759                                | 648.6                                                 |
| 39            | .0035      | .089 | 12.20                        | .03774                                | 847.8                                                 |
| 40            | .0031      | .079 | 9.61                         | .02993                                | 1080.0                                                |

Information from National Bureau of Standards Copper Wire Tables — Handbook 100.

### Unparalleled Performance

Belden is one of only a very few cable manufacturers to draw and anneal its own conductors. This is a time-consuming process, but it allows us to ensure signal integrity, as well as proper physical characteristics.

In addition, the standards under which we design and manufacture our fiber optic cabling are among the strictest in the industry. The result is a comprehensive offering of products which give unparalleled performance and can satisfy your most demanding operating and environmental challenges.



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## Conductors

Table 2: Stranded Copper Wire, American Wire Gage

| Gage<br>(AWG) | Stranding<br>(Nom. AWG) | Min. Average<br>OD of Strand | Approximate OD |      | ASTM Min.<br>Circular MIL Area | Min. Weight<br>(Lbs./1000 Ft.) | Max. Resistance*<br>@ 68°F<br>( $\Omega$ /1000 Ft.) |
|---------------|-------------------------|------------------------------|----------------|------|--------------------------------|--------------------------------|-----------------------------------------------------|
|               |                         |                              | Inches         | mm   |                                |                                |                                                     |
| 36            | 7x44                    | .0019                        | .006           | .152 | 25                             | .076                           | 414.8                                               |
| 34            | 7x42                    | .0024                        | .0075          | .191 | 39.7                           | .121                           | 260.9                                               |
| 32            | 7x40                    | .0030                        | .0093          | .236 | 64                             | .195                           | 164.1                                               |
| 32            | 19x44                   | .0018                        | .010           | .254 | 64                             | .195                           | 164.1                                               |
| 30 ♦          | 7x38                    | .0038                        | .012           | .305 | 100                            | .304                           | 112.0                                               |
| 30            | 19x42                   | .0023                        | .012           | .305 | 100                            | .304                           | 112.0                                               |
| 28 ♦          | 7x36                    | .0048                        | .015           | .381 | 159                            | .484                           | 70.7                                                |
| 28 ♦          | 19x40                   | .0029                        | .016           | .406 | 159                            | .484                           | 70.7                                                |
| 27            | 7x35                    | .0054                        | .017           | .432 | 202                            | .614                           | 55.6                                                |
| 26 ♦          | 7x34                    | .0060                        | .019           | .483 | 253                            | .770                           | 44.4                                                |
| 26            | 10x36                   | .0050                        | .021           | .533 | 253                            | .770                           | 44.4                                                |
| 26 ♦          | 19x38                   | .0036                        | .020           | .508 | 253                            | .770                           | 44.4                                                |
| 24 ♦          | 7x32                    | .0076                        | .024           | .610 | 404                            | 1.229                          | 27.7                                                |
| 24            | 10x34                   | .0064                        | .024           | .610 | 404                            | 1.229                          | 27.7                                                |
| 24 ♦          | 19x36                   | .0046                        | .024           | .610 | 404                            | 1.229                          | 27.7                                                |
| 24 ♦          | 42x40                   | .0031                        | .023           | .584 | 404                            | 1.229                          | 27.7                                                |
| 22 ♦          | 7x30                    | .0096                        | .030           | .762 | 640                            | 1.947                          | 17.5                                                |
| 22 ♦          | 19x34                   | .0058                        | .031           | .787 | 640                            | 1.947                          | 17.5                                                |
| 22            | 26x36                   | .0050                        | .030           | .762 | 640                            | 1.947                          | 17.5                                                |
| 20 ♦          | 7x28                    | .0126                        | .038           | .965 | 1020                           | 3.103                          | 10.9                                                |
| 20            | 10x30                   | .0101                        | .037           | .940 | 1020                           | 3.103                          | 10.9                                                |
| 20 ♦          | 19x32                   | .0073                        | .037           | .940 | 1020                           | 3.103                          | 10.9                                                |
| 20            | 26x34                   | .0063                        | .036           | .914 | 1020                           | 3.103                          | 10.9                                                |
| 20 ♦          | 42x36                   | .0049                        | .038           | .965 | 1020                           | 3.103                          | 10.9                                                |
| 18 ♦          | 7x26                    | .0152                        | .048           | 1.22 | 1620                           | 4.93                           | 6.92                                                |
| 18            | 16x30                   | .0101                        | .047           | 1.19 | 1620                           | 4.93                           | 6.92                                                |
| 18 ♦          | 19x30                   | .0092                        | .049           | 1.24 | 1620                           | 4.93                           | 6.92                                                |
| 18 ♦          | 42x34                   | .0062                        | .047           | 1.19 | 1620                           | 4.93                           | 6.92                                                |
| 18 ♦          | 65x36                   | .0050                        | .047           | 1.19 | 1620                           | 4.93                           | 6.92                                                |
| 16 ♦          | 7x24                    | .0192                        | .060           | 1.52 | 2580                           | 7.85                           | 4.35                                                |
| 16 ♦          | 19x29                   | .0117                        | .058           | 1.47 | 2580                           | 7.85                           | 4.35                                                |
| 16            | 26x30                   | .0100                        | .059           | 1.50 | 2580                           | 7.85                           | 4.35                                                |
| 16 ♦          | 65x34                   | .0063                        | .059           | 1.50 | 2580                           | 7.85                           | 4.35                                                |
| 16            | 105x36                  | .0050                        | .059           | 1.50 | 2580                           | 7.85                           | 4.35                                                |
| 14 ♦          | 7x22                    | .0242                        | .076           | 1.93 | 4110                           | 12.50                          | 2.73                                                |
| 14 ♦          | 19x26                   | .0147                        | .071           | 1.80 | 4110                           | 12.50                          | 2.73                                                |
| 14 ♦          | 42x30                   | .0099                        | .075           | 1.91 | 4110                           | 12.50                          | 2.73                                                |
| 14            | 105x34                  | .0063                        | .075           | 1.91 | 4110                           | 12.50                          | 2.73                                                |
| 12 ♦          | 7x20                    | .0305                        | .096           | 2.44 | 6530                           | 19.86                          | 1.71                                                |
| 12 ♦          | 19x25                   | .0185                        | .093           | 2.36 | 6530                           | 19.86                          | 1.71                                                |
| 12 ♦          | 65x30                   | .0100                        | .095           | 2.41 | 6530                           | 19.86                          | 1.71                                                |
| 12            | 165x34                  | .0063                        | .095           | 2.41 | 6530                           | 31.58                          | 1.71                                                |
| 10            | 37x26                   | .0167                        | .115           | 2.92 | 10380                          | 31.58                          | 1.08                                                |
| 10            | 65x28                   | .0126                        | .120           | 3.05 | 10380                          | 31.58                          | 1.08                                                |
| 10            | 105x30                  | .0099                        | .118           | 3.00 | 10380                          | 31.58                          | 1.08                                                |

\*AWG 10 through 30 per UL Subject 13.

Belden has standardized on the stranded conductors used in the production of all Belden® products. These preferred constructions, based on standard industry practices, are marked with a ♦ symbol.



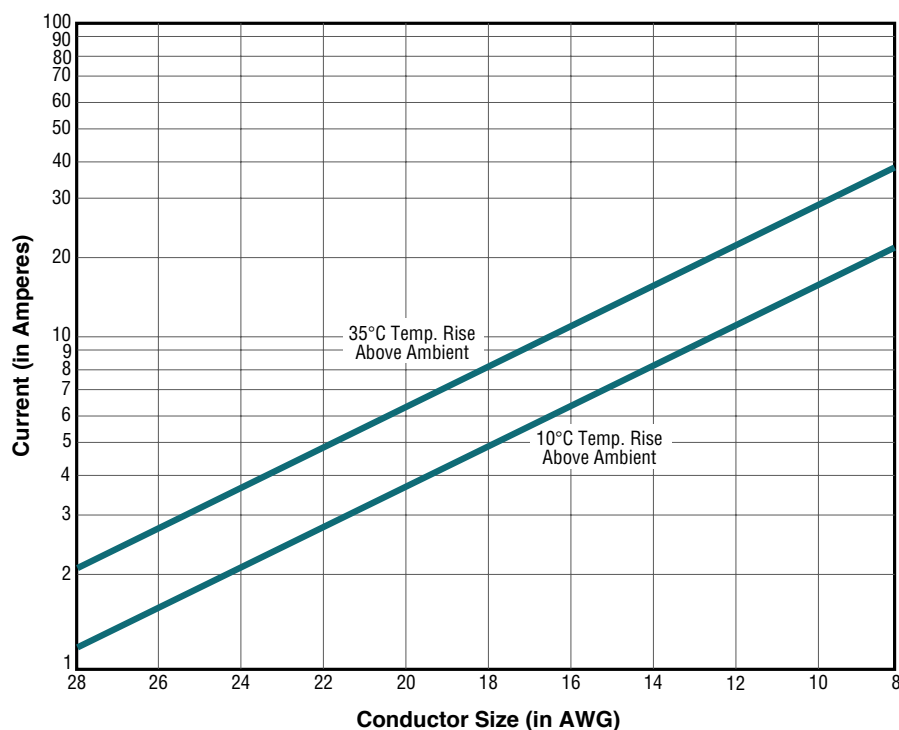
## Conductors

Table 3: Current Ratings for Belden® Electronic Cables

The maximum continuous current rating for an electronic cable is limited by conductor size, number of conductors contained within the cable, maximum temperature rating of the cable, and environmental conditions such as ambient temperature and air flow. To use the current capacity chart, first determine conductor size, temperature rating, and number of conductors from the applicable product description for the cable of interest.

Next, find the current value on the chart for the proper temperature rating and conductor size. To calculate the maximum current rating/conductor, multiply the chart value by the appropriate conductor product factor. The chart assumes cable is surrounded by still air at an ambient temperature of 25°C. Current values are in RMS Amperes and are valid for copper conductors only. For conditions other than specified, contact Belden Technical Support at: **1-800-BELDEN-1**.

*Note: Current ratings are intended as general guidelines for low power electronic communications and control applications. Current ratings for power applications generally are set by regulatory agencies such as UL, CSA, NEC, and others.*



### Current Ratings

| No. of Conductors* | Factor |
|--------------------|--------|
| 1                  | 1.6    |
| 2 to 3             | 1.0    |
| 4 to 5             | .8     |
| 6 to 15            | .7     |
| 16 to 30           | .5     |

\*Do not count shields unless used as conductor.



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# Insulations and Jackets

## Overview

### Insulations

Belden expends a great amount of time and effort to formulate its own insulations. As a result, Belden® insulations provide superior performance under a variety of hostile environmental conditions. Belden cables are available in UL Listed and CSA Approved insulation compounds.

Among the insulations we utilize are:

- **Polyethylene**
- **Polyvinyl-chloride (PVC)**
- **Polypropylene**

Also available are:

- **Datalene®** — For computer and data transmission. Datalene is crush resistant, lightweight, and offers good performance characteristics over a wide range of temperatures.
- **Teflon® Insulated Plenum & High-Temperature Cables** — For data communications, instrumentation/control, and other commercial and industrial applications. Plenum cables eliminate the need for conduit and reduce installation time.

### Jackets

Belden electronic cables are manufactured in a wide selection of jacketing materials.

- **Flamarrest®** — A Belden jacketing innovation, Flamarrest is a low-smoke, flame retardant compound that is five times more flexible than fluorocopolymer. Cables jacketed with Flamarrest are cost efficient and easy to install.

Also included in our wide selection of jacketing compounds are:

- **Polyvinyl-chloride**
- **Polyethylene**
- **Polyurethane**
- **Teflon**
- **Tefzel®**
- **Halar®**
- **Neoprene**
- **EPDM**
- **Hypalon®**
- **Silicone rubber**
- **Natural rubber**

Special compounds and variations of standard compounds are used as well.

Teflon, Tefzel and Hypalon are DuPont trademarks.  
Halar is an Ausimont Corporation trademark.



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## Insulations and Jackets

### Typical Characteristics of Popular Insulation and Jacketing Compounds

#### EPDM

EPDM (ethylene-propylene-diene elastomer) is a chemically cross-linked elastomer with excellent flexibility at high and low temperatures (150° to -55°C). It has good insulation resistance and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM also has better cut-through resistance than Silicone rubber, which it replaces in some applications.

EPDM is compatible with most varnishes, but after the dip and bake cycle varnish tends to adhere to the insulation (because EPDM, unlike some rubber insulations, does not exude oils or waxes). As lead wires are pulled apart for termination, the varnish cracks, sometimes breaking the insulation.

To resolve this problem, a stearic solution is applied to the lead wire during the put-up process. This ensures that rigid varnish does not cause EPDM insulation to rupture when the wire is terminated.

Field evaluations by numerous users reveal that the coated EPDM has excellent varnish resistance at least equal to synthetic elastomers, cross-link polyethylene, or Silicone glass braid in dip and bake systems.

#### Flamarrest®

Flamarrest is a plenum grade chloride-based jacketing material with low smoke and low flame spread properties. Cables jacketed with Flamarrest meet the UL Standard 910, Plenum Cable Flame Test.

#### Halar®

Thermoplastic fluoropolymer material with excellent chemical resistance, electrical properties, thermal characteristics, and impact resistance. The temperature rating is -70°C to 150°C.

#### Neoprene

The temperature range of this material can vary from -55°C to 90°C. The actual range would depend on the formulation used. Neoprene is both oil-resistant and sunlight-resistant, making it ideal for many outdoor applications. The most stable colors are Black, Dark Brown, and Gray. The electrical properties are not as good as other insulation materials. Because of this, thicker insulation should be used. Typical designs where this material is used are lead wire insulation and cable jackets.

#### Polyethylene (Solid and Foamed)

A very good insulation in terms of electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density—low density being the most flexible, with high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent. Correct Brown and Black formulations have excellent weather resistance. The dielectric constant is 2.3 for solid insulation and typically 1.64 for foam designs. Flame retardant formulations are available with dielectric constants ranging from about 1.7 for foam flame retardant to 2.58 for solid flame retardant polyethylene.

#### Polypropylene (Solid and Foam)

Similar in electrical properties to polyethylene. This material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. UL maximum temperature rating may be 60°C or 80°C. Most UL styles call for 60°C maximum. The dielectric constant is 2.25 for solid and typically 1.55 for foam designs.

#### Polyurethane

This material is used primarily as a cable jacket material. It has excellent oxidation, oil, and ozone resistance. Some formations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding "memory" properties, making it an ideal jacket material for retractile cords.

#### PVC

Sometimes referred to as vinyl or polyvinyl-chloride. Extremely high or low temperature properties cannot be found in one formulation. Certain formulations may have -55°C to 105°C rating. Other common vinyls may have -20°C to 60°C. There are many formulations for the variety of different applications. The many varieties of PVC also differ in pliability and electrical properties. The price range can vary accordingly. Typical dielectric constant values can vary from 3.5 to 6.5.

#### Rubber

The description of rubber normally includes natural rubber and SBR compounds. Both of these materials can be used for insulations and jackets. There are many formulations of these basic materials. Each formulation is for a specific application. Some formulations are suitable for -55°C minimum, while others are suitable for 75°C maximum.

#### Silicone

This is a very soft insulation which has a temperature range from -80°C to 200°C. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

#### Teflon®

This material has excellent electrical properties, temperature range and chemical resistance. It is not suitable where subjected to nuclear radiation and does not have good high voltage characteristics. FEP Teflon is extrudable in a manner similar to PVC and polyethylene. This means that long wire and cable lengths are available. TFE Teflon is extrudable in a hydraulic ram type process. Lengths are limited due to amount of material in the ram, thickness of the insulation, and preform size. TFE must be extruded over a silver- or nickel-coated wire. The nickel- and silver-coated designs are rated 260°C and 200°C maximum, respectively. The cost of Teflon is approximately 8 to 10 times more per pound than PVC compounds.

#### Tefzel®

Fluorocopolymer thermoplastic material having excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance, and flame resistance. The temperature rating is -65°C to 150°C.

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## Insulations and Jackets

Table 4: Comparative Properties of Plastic Insulating and Jacketing Compounds

| Properties                                                             | PVC | LDPE | Cellular Polyethylene | HDPE | Polypropylene | Cellular Polypropylene | PUR | Nylon | CPE | Flamarrest® |
|------------------------------------------------------------------------|-----|------|-----------------------|------|---------------|------------------------|-----|-------|-----|-------------|
| <b>Oxidation Resistance</b>                                            | E   | E    | E                     | E    | E             | E                      | E   | E     | E   | E           |
| <b>Heat Resistance</b>                                                 | G-E | G    | G                     | E    | E             | E                      | G   | E     | E   | G-E         |
| <b>Oil Resistance</b>                                                  | F   | G-E  | G                     | G-E  | F             | F                      | E   | E     | E   | F           |
| <b>Low-Temperature Flexibility</b>                                     | P-G | E    | E                     | E    | P             | P                      | G   | G     | E   | P-G         |
| <b>Weather, Sun Resistance</b>                                         | G-E | E    | E                     | E    | E             | E                      | G   | E     | E   | G           |
| <b>Ozone Resistance</b>                                                | E   | E    | E                     | E    | E             | E                      | E   | E     | E   | E           |
| <b>Abrasion Resistance</b>                                             | F-G | G    | F                     | E    | F-G           | F-G                    | O   | E     | E-O | F-G         |
| <b>Electrical Properties</b>                                           | F-G | E    | E                     | E    | E             | E                      | P   | P     | E   | G           |
| <b>Flame Resistance</b>                                                | E   | P    | P                     | P    | P             | P                      | P   | P     | E   | E           |
| <b>Nuclear Radiation Resistance</b>                                    | F   | G-E  | G                     | G-E  | F             | F                      | G   | F-G   | O   | F           |
| <b>Water Resistance</b>                                                | F-G | E    | E                     | E    | E             | E                      | P-G | P-F   | O   | F           |
| <b>Acid Resistance</b>                                                 | G-E | G-E  | G-E                   | E    | E             | E                      | F   | P-F   | E   | G           |
| <b>Alkali Resistance</b>                                               | G-E | G-E  | G-E                   | E    | E             | E                      | F   | E     | E   | G           |
| <b>Aliphatic Hydrocarbons Resistance</b><br>(Gasoline, Kerosene, etc.) | P   | G-E  | G                     | G-E  | P-F           | P                      | P-G | G     | E   | P           |
| <b>Aromatic Hydrocarbons Resistance</b><br>(Benzol, Toluol, etc.)      | P-F | P    | P                     | P    | P-F           | P                      | P-G | G     | G-E | P-F         |
| <b>Halogenated Hydrocarbons Resistance</b><br>(Degreaser Solvents)     | P-F | G    | G                     | G    | P             | P                      | P-G | G     | E   | P-F         |
| <b>Alcohol Resistance</b>                                              | P-F | E    | E                     | E    | E             | E                      | P-G | P     | E   | G           |
| <b>Underground Burial</b>                                              | P-G | G    | N/A                   | E    | N/A           | N/A                    | G   | P     | E-O | P           |

CPE = Chlorinated Polyethylene • HDPE = High-density Polyethylene • LDPE = Low-density Polyethylene • PUR = Polyurethane

These ratings are based on average performance of general purpose compounds.  
Any given property can usually be improved by the use of selective compounding.

| Legend   |             |
|----------|-------------|
| <b>P</b> | Poor        |
| <b>F</b> | Fair        |
| <b>G</b> | Good        |
| <b>E</b> | Excellent   |
| <b>O</b> | Outstanding |



## Insulations and Jackets

Table 5: Comparative Properties of Fluoropolymer Insulating and Jacketing Compounds

| Properties                                                             | FEP<br>Teflon® | Tefzel®<br>(ETFE) | TFE<br>Teflon | Solef® / Kynar®<br>(PVDF) / PVF | Halar®<br>(E-CTFE) |
|------------------------------------------------------------------------|----------------|-------------------|---------------|---------------------------------|--------------------|
| <b>Oxidation Resistance</b>                                            | O              | E                 | O             | O                               | O                  |
| <b>Heat Resistance</b>                                                 | O              | E                 | O             | O                               | O                  |
| <b>Oil Resistance</b>                                                  | O              | E                 | E-O           | E                               | O                  |
| <b>Low-Temperature Flexibility</b>                                     | O              | E                 | O             | F                               | O                  |
| <b>Weather, Sun Resistance</b>                                         | O              | E                 | O             | E-O                             | O                  |
| <b>Ozone Resistance</b>                                                | E              | E                 | O             | E                               | E                  |
| <b>Abrasion Resistance</b>                                             | E              | E                 | O             | E                               | E                  |
| <b>Electrical Properties</b>                                           | E              | E                 | E             | G-E                             | E                  |
| <b>Flame Resistance</b>                                                | O              | G                 | E             | E                               | E-O                |
| <b>Nuclear Radiation Resistance</b>                                    | P-G            | E                 | P             | E                               | E                  |
| <b>Water Resistance</b>                                                | E              | E                 | E             | E                               | E                  |
| <b>Acid Resistance</b>                                                 | E              | E                 | E             | G-E                             | E                  |
| <b>Alkali Resistance</b>                                               | E              | E                 | E             | E                               | E                  |
| <b>Aliphatic Hydrocarbons Resistance</b><br>(Gasoline, Kerosene, etc.) | E              | E                 | E             | E                               | E                  |
| <b>Aromatic Hydrocarbons Resistance</b><br>(Benzol, Toluol, etc.)      | E              | E                 | E             | G-E                             | E                  |
| <b>Halogenated Hydrocarbons Resistance</b><br>(Degreaser Solvents)     | E              | E                 | E             | G                               | E                  |
| <b>Alcohol Resistance</b>                                              | E              | E                 | E             | E                               | E                  |
| <b>Underground Burial</b>                                              | E              | E                 | E             | E                               | E                  |

These ratings are based on average performance of general purpose compounds.  
Any given property can usually be improved by the use of selective compounding.

### Legend

|          |             |
|----------|-------------|
| <b>P</b> | Poor        |
| <b>F</b> | Fair        |
| <b>G</b> | Good        |
| <b>E</b> | Excellent   |
| <b>O</b> | Outstanding |

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## Insulations and Jackets

Table 6: Comparative Properties of Rubber Insulations

| Properties                                                             | Rubber | Neoprene | Hypalon®<br>(Chlorosulfonated<br>Polyethylene) | EPDM<br>(Ethylene-Propylene-<br>Diene Elastomer) | Silicone |
|------------------------------------------------------------------------|--------|----------|------------------------------------------------|--------------------------------------------------|----------|
| <b>Oxidation Resistance</b>                                            | F      | G        | E                                              | E                                                | E        |
| <b>Heat Resistance</b>                                                 | F      | G        | E                                              | E                                                | O        |
| <b>Oil Resistance</b>                                                  | P      | G        | G                                              | P                                                | F-G      |
| <b>Low-Temperature Flexibility</b>                                     | G      | F-G      | F                                              | G-E                                              | O        |
| <b>Weather, Sun Resistance</b>                                         | F      | G        | E                                              | E                                                | O        |
| <b>Ozone Resistance</b>                                                | P      | G        | E                                              | E                                                | O        |
| <b>Abrasion Resistance</b>                                             | E      | G-E      | G                                              | G                                                | P        |
| <b>Electrical Properties</b>                                           | G      | P        | G                                              | E                                                | G        |
| <b>Flame Resistance</b>                                                | P      | G        | G                                              | P                                                | F-G      |
| <b>Nuclear Radiation Resistance</b>                                    | F      | F-G      | E                                              | G                                                | E        |
| <b>Water Resistance</b>                                                | G      | E        | E                                              | G-E                                              | G-E      |
| <b>Acid Resistance</b>                                                 | F-G    | G        | E                                              | G-E                                              | F-G      |
| <b>Alkali Resistance</b>                                               | F-G    | G        | E                                              | G-E                                              | F-G      |
| <b>Aliphatic Hydrocarbons Resistance</b><br>(Gasoline, Kerosene, etc.) | P      | G        | F                                              | P                                                | P-F      |
| <b>Aromatic Hydrocarbons Resistance</b><br>(Benzol, Toluol, etc.)      | P      | P-F      | F                                              | F                                                | P        |
| <b>Halogenated Hydrocarbons Resistance</b><br>(Degreaser Solvents)     | P      | P        | P-F                                            | P                                                | P-G      |
| <b>Alcohol Resistance</b>                                              | G      | F        | G                                              | P                                                | G        |

These ratings are based on average performance of general purpose compounds.  
Any given property can usually be improved by the use of selective compounding.

| Legend   |             |
|----------|-------------|
| <b>P</b> | Poor        |
| <b>F</b> | Fair        |
| <b>G</b> | Good        |
| <b>E</b> | Excellent   |
| <b>O</b> | Outstanding |

Hypalon is a DuPont trademark.

## Insulations and Jackets

Table 7: Nominal Temperature Range for Various Insulating and Jacketing Compounds

Table 8: Temperature Conversion Chart

| Compound                                 | Normal Low | Normal High | Special Low | Special High |
|------------------------------------------|------------|-------------|-------------|--------------|
| Chlorosulfonated Polyethylene (Hypalon®) | -20°C      | 90°C        | -40°C       | 105°C        |
| EPDM (Ethylene-Propylene-Diene Monomer)  | -55°C      | 105°C       | —           | 150°C        |
| Neoprene                                 | -20°C      | 60°C        | -55°C       | 90°C         |
| Polyethylene (Solid and Foamed)          | -60°C      | 80°C        | —           | —            |
| Polypropylene (Solid and Foamed)         | -40°C      | 105°C       | —           | —            |
| Rubber                                   | -30°C      | 60°C        | -55°C       | 75°C         |
| FEP Teflon®                              | -70°C      | 200°C       | —           | —            |
| PVC                                      | -20°C      | 80°C        | -55°C       | 105°C        |
| Silicone                                 | -80°C      | 150°C       | —           | 200°C        |
| Halar®                                   | -70°C      | 150°C       | —           | —            |
| Tefzel®                                  | -65°C      | 150°C       | —           | —            |
| TFE Teflon                               | -70°C      | 260°C       | —           | —            |
| CPE                                      | -35°C      | 90°C        | -45°C       | 105°C        |
| Solef® / Kynar®                          | -20°C      | 150°/125°C  | -40°C       | 150°/150°C   |
| Flamarrest®                              | -20°C      | 75°C        | —           | —            |

Table 8: Temperature Conversion Chart

| °C ↔ °F | °C ↔ °F | °C ↔ °F | Conversion Formulas                                                                                             |
|---------|---------|---------|-----------------------------------------------------------------------------------------------------------------|
| 210 410 | 125 257 | 40 104  | $^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$ $^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32$ |
| 205 401 | 120 248 | 35 95   |                                                                                                                 |
| 200 392 | 115 239 | 30 86   |                                                                                                                 |
| 195 383 | 110 230 | 25 77   |                                                                                                                 |
| 190 374 | 105 221 | 20 68   |                                                                                                                 |
| 185 365 | 100 212 | 15 59   |                                                                                                                 |
| 180 356 | 95 203  | 10 50   |                                                                                                                 |
| 175 347 | 90 194  | 5 41    |                                                                                                                 |
| 170 338 | 85 185  | 0 32    |                                                                                                                 |
| 165 329 | 80 176  | -5 23   |                                                                                                                 |
| 160 320 | 75 167  | -10 14  |                                                                                                                 |
| 155 311 | 70 158  | -15 5   |                                                                                                                 |
| 150 302 | 65 149  | -20 -4  |                                                                                                                 |
| 145 293 | 60 140  | -25 -13 |                                                                                                                 |
| 140 284 | 55 131  | -30 -22 |                                                                                                                 |
| 135 275 | 50 122  | -35 -31 |                                                                                                                 |
| 130 266 | 45 113  | -40 -40 |                                                                                                                 |

Hypalon, Teflon and Tefzel are DuPont trademarks.  
Halar is an Ausimont Corporation trademark.  
Solef is a Solvay trademark.  
Kynar is a Pennwalt Corporation trademark.



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## Shielding

### Overview

#### Innovative Leadership

The evolution of technology maintains steady demand for sophisticated cable shielding. Belden meets that demand with innovative shielding and shield effectiveness testing methods to supply you with high quality, dependable cable.

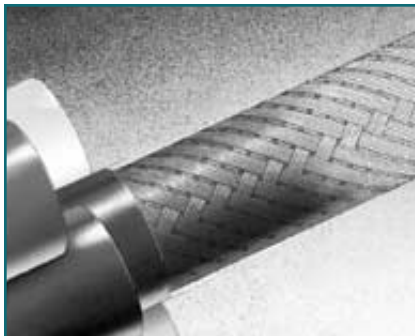
With the creation of trademarked shield designs and patented test methods, Belden has earned a reputation for innovation and leadership that is unequaled in the wire and cable industry. In addition, Belden offers the broadest line of shielded multi-conductor, coaxial and flat cable in the industry.

Several unique Belden innovations are utilized across a wide range of shielding applications:

- **Beldfoil®** — The first aluminum/polyester foil developed for use as a cable shield. Provides 100% shield coverage for optimum protection.
- **Duofoil®** — Consists of an aluminum-polyester-aluminum laminate wrapped around the cable's dielectric core. Provides 100% physical coverage, and improves shield reliability and flex life.

Belden also utilizes a number of innovative techniques to apply shielding to multi-conductor and paired cables:

- **“French Braid” Shields** — Belden's patented “French Braid” shield is a double spiral (double serve bare copper shield) with the two spirals tied together by one weave.



Belden's patented “French Braid” shield.

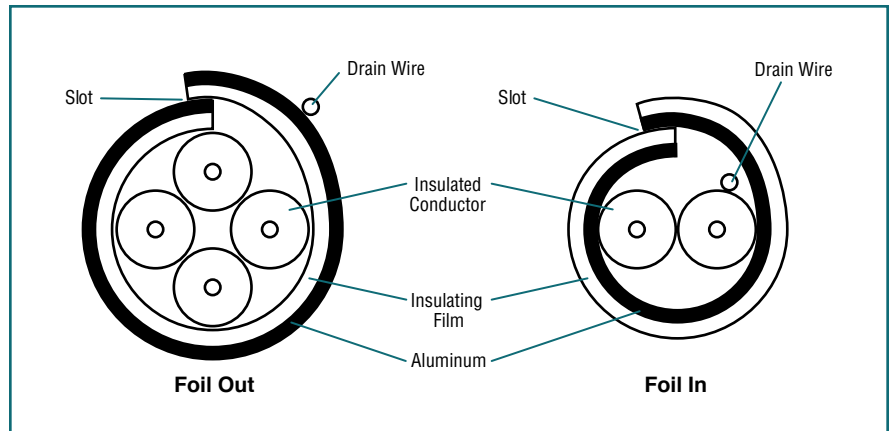


Figure 1: Foil shield configurations without shorting folds.

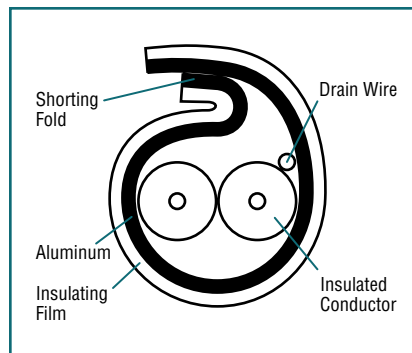


Figure 2: Foil shield configuration with shorting fold.

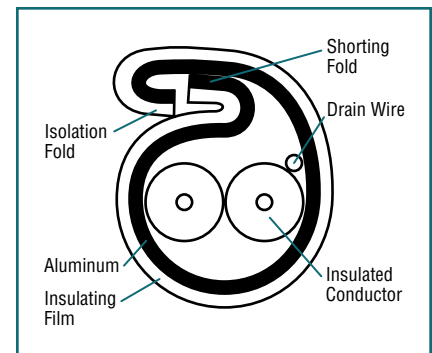


Figure 3: Foil shield with Z-Fold reduces crosstalk in multi-pair applications.

- **Shorting Fold** — Belden uses a shorting fold technique to maintain metal-to-metal contact for improved high frequency performance. Without the shorting fold, a slot is created through which signals can leak and cause interference. (See Figures 1 and 2 above.)

- **Z-Fold®** — Belden improves on the traditional shorting fold by employing a Z-Fold designed for use in multi-pair applications to reduce crosstalk. The Z-Fold (see Figure 3) combines an isolation and a shorting fold. The shorting fold provides metal-to-metal contact while the isolation fold keeps shields from shorting to one another in multi-pair, individually shielded cables.

The use of either a shorting fold or a Z-Fold increases the foil shield's range of effectiveness to higher frequencies.



# Shielding

## Characteristics of Belden® Shield Types

### Foil Shields

Foil shields consist of aluminum foil laminated to a polyester or polypropylene film. The film gives the shield mechanical strength and bonus insulation. Foil shields provide 100% cable coverage, necessary for electrostatic shield protection. Because of their small size, foil shields are commonly used to shield individual pairs of multi-pair data cables to reduce crosstalk. They have less weight, bulk and cost less than spiral or braid shields and are generally more effective than braid shields in RF ranges. Foil shields are more flexible than braid but have a shorter flex life than spiral or braid.

Drain wires are used with foil shields to make termination easier and to ground electrostatic discharges. The shortcomings in using the foil shield include higher DC resistance and lower mechanical strength than braid or spiral shields.

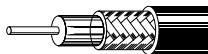


### Braid Shields

A braid shield consists of groups of tinned or bare copper or aluminum strands, one set woven in a clockwise direction and interwoven with another set in a counter-clockwise direction.

Braid shields provide superior structural integrity, while maintaining good flexibility and flex life. These shields are ideal for minimizing low frequency interference and have lower DC resistance than foil. Braid shields are effective at audio, as well as RF ranges. Generally, the higher the braid coverage, the more effective the shield. However, the trade-off between cost and braid coverage must be considered. Typical braid coverages are between 80% and 95%. Coverage of 100% is unattainable with a braid shield. Other features to consider when choosing a braid shield are the weave angle, strand diameter, number of carriers (strand groups) and the number of ends (strands).

Braid shields are generally bulkier and heavier than other shields and, in some cases, harder to terminate because the braid must be combed out and pigtailed.



### Spiral/Serve Shields

A spiral/serve shield consists of wire (usually copper) wrapped in a spiral around the inner cable core.

Superior flexibility and flex life, ease of termination and up to 97% coverage are the advantages of spiral shields. They are best suited for audio applications. As a rule, spiral shields are not effective above the audio frequency range due to the coil effect produced by the inductance of served wire strands.



### “French Braid” Shields

Belden’s patented “French Braid” shield is a double spiral (double serve bare copper shield) with the two spirals tied together by one weave. This construction provides improved flex life over standard spiral shields, improved flexibility over conventional braid shields, and lower levels of microphonic or triboelectric noise than either spiral or conventional braid shields.



### Combination Shields

Combination shields consist of more than one layer of shielding. They provide maximum shield efficiency across the frequency spectrum. The combination foil/braid shield combines the advantages of 100% foil coverage, plus the strength and low DC resistance of the braid.

Belden has also developed a number of shielding configurations for use with broadband coaxial cables.

- **Duobond®**  
Duobond is essentially the same construction as Duofoil® (a laminated tape of foil/film/foil), but with an extra layer of adhesive bonding the foil shield to the dielectric core. This foil shield provides 100% coverage and insures maximum shield protection.

- **Duobond II (Foil/Braid)**

Combines Duobond with an outer braid, applied for greater protection against interference and to increase the overall tensile strength.

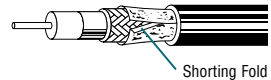


- **Duobond III (Tri-Shield)**

Utilizes the Duobond II design (foil/braid) plus a surrounding layer of Duofoil. The extra foil layer improves shield reliability and provides an additional interference barrier.



- **Duobond Plus®** — Features foil/braid/foil construction with a shorting fold in the outermost foil. This fold prevents a slot opening from being created in the shield, thereby preventing signal egress or ingress.



- **Duobond IV (Quad Shield)**

Offers an extra layer of braid shield (foil/braid/foil/braid) for improved strength and durability.



Other combination shields are available such as the foil/braid/foil/braid used on the Ethernet cables, braid/braid or foil/spiral.

## Shielding and Armoring

### Shield Types Application Guide and Relative Cost Comparison

Table 9: Relative Cost Comparison of Shield Types • Table 10: Shield Performance Ratings

#### Shield Types Application Guide

##### Choose a Foil Shield...

- For protection against capacitive (electric field) coupling where shield coverage is more important than low DC resistance.
- When possible sources of interference include TV signals, crosstalk from other circuits, radio transmitters, fluorescent lights or computing equipment.
- For MATV, CATV, video, networking, computer I/O cables in office, industrial or commercial environments where ambient EMI levels are low.

##### Choose a Braid Shield...

- For superior performance against diffusion coupling, where low DC resistance is important, and to a lesser extent, capacitive and inductive coupling.
- When possible sources of interference exhibit low impedance characteristics, such as motor control circuits and switches which operate inductive loads.
- For computer to terminal interconnect for process, instrumentation or control applications.

##### Choose a Spiral Shield...

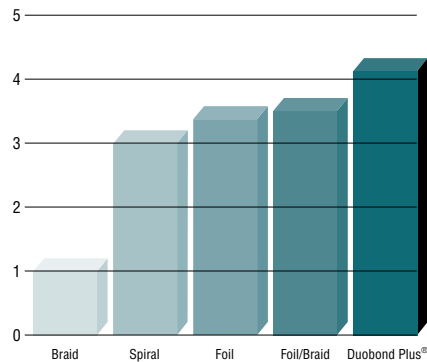
- For functional shielding against diffusion and capacitive coupling at audio frequencies only.
- When possible sources of interference are power lines and fluorescent lights.
- For applications when flexibility and flex life are major concerns, such as microphone and audio cables and retractile cords.

##### Choose a Combination Shield...

- For shielding against high frequency radiated emissions coupling and ESD. Combines the low resistance of braid and 100% coverage of foil shields.
- When possible sources of interference include radio transmitters, TV stations, printed circuit boards, back planes, motor control circuits and computing equipment.
- For Video, CATV, MATV, networking, computer I/O cables and computer-aided manufacturing applications.

**Table 9: Relative Cost Comparison**

Relative cost comparisons are based on **coaxial** cable. Chart shows relative shield cost as one component of the total cost of the cable. *These cost ratings may change depending on the physical construction of the cable.*



#### Armoring

Belden's innovative technology delivers maximum effectiveness to meet the performance requirements of a wide range of applications.

Belden also has the capability to protect electronic, instrumentation, and control cables with interlocking steel or aluminum armor and cables with Verlok® inner jackets.

- **Interlocking** — Traditional armoring available in steel or aluminum.
- **Verlok** — Cables with Verlok inner jackets feature extruded ribs on the cable jacket to ensure a strong mechanical grip between the armor and jacket. Cables with Verlok jackets can replace steel wire armored cables in many mining, commercial, and industrial applications.

**Table 10: Shield Performance Comparison Chart**

| Frequency Range and Types of Interference Anticipated | Cable Shield Ratings* |        |      |            |                               |
|-------------------------------------------------------|-----------------------|--------|------|------------|-------------------------------|
|                                                       | Braid (95% Coverage)  | Spiral | Foil | Foil/Braid | Foil/Braid/Foil Duobond Plus® |
| <b>Frequency: DC</b>                                  |                       |        |      |            |                               |
| Capacitive                                            | A                     | AA     | AAA  | AAA        | AAA                           |
| Diffusion                                             | AAA                   | A      | C    | AAA        | AAA                           |
| Diffusion/Inductive                                   | —                     | —      | —    | —          | —                             |
| Diffusion/Inductive/Capacitive                        | —                     | —      | —    | —          | —                             |
| <b>Frequency: 15 kHz</b>                              |                       |        |      |            |                               |
| Capacitive                                            | A                     | AA     | AAA  | AAA        | AAA                           |
| Diffusion                                             | AAA                   | B      | C    | AAA        | AAA                           |
| Diffusion/Inductive                                   | AA                    | C      | A    | AA         | AAA                           |
| Diffusion/Inductive/Capacitive                        | —                     | —      | —    | —          | —                             |
| <b>Frequency: 10 MHz to 1000 MHz</b>                  |                       |        |      |            |                               |
| Capacitive                                            | A                     | AA     | AAA  | AAA        | AAA                           |
| Diffusion                                             | —                     | —      | —    | —          | —                             |
| Diffusion/Inductive                                   | B                     | C      | A    | AA         | AAA                           |
| Diffusion/Inductive/Capacitive                        | B                     | C      | A    | AA         | AAA                           |

\*Although ratings shown in Table 10 are based on shielded coaxial cable test results, these ratings also pertain to shielded multi-conductor and flat cable where shield types are available.

**Note:** Shield effectiveness decreases as frequency increases. Therefore, ratings in one frequency category do not imply equal shield effectiveness in other frequency categories.

#### Shield Rating Key

|     |                |
|-----|----------------|
| AAA | Best           |
| AA  | Better         |
| A   | Good           |
| B   | Functional     |
| C   | Unsatisfactory |
| —   | Not Applicable |

Verlok is a patent and trademark of United Wire and Cable Canada, Inc.

## Packaging



Belden, a recognized leader in state-of-the-art packaging design, has introduced a variety of packaging styles and options for the convenience of our customers:

### UnReel®

A wide variety of Belden cable and plenum cable is available in Belden's UnReel cardboard dispenser.

Belden UnReel is a unique packaging/dispensing system developed to save time, cut costs and labor, and eliminate the need for dereeling equipment.

Lightweight and more economical than conventional drums or reels, UnReel dispensers have pre-punched handles for easy, individual transport as well as rectangular boxes for easy pallet delivery and storage. Unreeled cable pays out smoothly and evenly with no kinking, twisting, or backlashing. It also rolls out 60% faster per hour than conventionally packaged cable.

UnReel ships, stores and dispenses in one carton, which — since its introduction — has always been fully recyclable and biodegradable. Look for the letter "U" in the put-up ("Length") description.

### Reel-In-A-Box

Belden's Reel-In-A-Box facilitates cable payout, making installations quicker and easier. And because it's primarily corrugated fiberboard material with plastic inserts, it weighs less than wooden crate reels. That makes it easier to handle and dispose of, as well as less costly to ship.

A 5" barrel, standard on every Belden® Reel-In-A-Box, helps eliminate memory — a typical problem encountered with 3" barrels used by other manufacturers.

The new Reel-In-A-Box is extremely durable. It has passed cold drop tests to  $-30^{\circ}\text{C}$ , which translates to maximum protection on the job as well as in shipping. Look for the letter "A" in the put-up description.



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# Belden® Color Code Charts

**Color Code Chart No. 1**

| Cond. No. | Color  |
|-----------|--------|
| 1         | Black  |
| 2         | White  |
| 3         | Red    |
| 4         | Green  |
| 5         | Brown  |
| 6         | Blue   |
| 7         | Orange |
| 8         | Yellow |
| 9         | Purple |
| 10        | Gray   |
| 11        | Pink   |
| 12        | Tan    |

18 Gage conductors in cables 8446 through 8449 are Black and White.

**Color Code Chart Nos. 2 and 2R — ICEA (Insulated Cable Engineers Association) Standard\***

| Cond. No. | Color               | Cond. No. | Color               | Cond. No. | Color              | Cond. No. | Color            |
|-----------|---------------------|-----------|---------------------|-----------|--------------------|-----------|------------------|
| 1         | Black               | 14        | Green/White Stripe  | 27        | Blue/Black/White   | 40        | Red/White/Green  |
| 2         | White               | 15        | Blue/White Stripe   | 28        | Black/Red/Green    | 41        | Green/White/Blue |
| 3         | Red                 | 16        | Black/Red Stripe    | 29        | White/Red/Green    | 42        | Orange/Red/Green |
| 4         | Green               | 17        | White/Red Stripe    | 30        | Red/Black/Green    | 43        | Blue/Red/Green   |
| 5         | Orange              | 18        | Orange/Red Stripe   | 31        | Green/Black/Orange | 44        | Black/White/Blue |
| 6         | Blue                | 19        | Blue/Red Stripe     | 32        | Orange/Black/Green | 45        | White/Black/Blue |
| 7         | White/Black Stripe  | 20        | Red/Green Stripe    | 33        | Blue/White/Orange  | 46        | Red/White/Blue   |
| 8         | Red/Black Stripe    | 21        | Orange/Green Stripe | 34        | Black/White/Orange | 47        | Green/Orange/Red |
| 9         | Green/Black Stripe  | 22        | Black/White/Red     | 35        | White/Red/Orange   | 48        | Orange/Red/Blue  |
| 10        | Orange/Black Stripe | 23        | White/Black/Red     | 36        | Orange/White/Blue  | 49        | Blue/Orange/Red  |
| 11        | Blue/Black Stripe   | 24        | Red/Black/White     | 37        | White/Red/Blue     | 50        | Black/Orange/Red |
| 12        | Black/White Stripe  | 25        | Green/Black/White   | 38        | Black/White/Green  |           |                  |
| 13        | Red/White Stripe    | 26        | Orange/Black/White  | 39        | White/Black/Green  |           |                  |

\* 2 = Spiral Stripe  
2R = Ring Band Striping

\* 2 = Spiral Stripe  
2R = Ring Band Striping

**Color Code Chart No. 3 for Paired Cables (Belden Standard)**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination   |
|----------|-------------------|----------|-------------------|----------|-------------------|----------|---------------------|
| 1        | Black & Red       | 11       | Red & Yellow      | 21       | White & Brown     | 31       | Purple & White      |
| 2        | Black & White     | 12       | Red & Brown       | 22       | White & Orange    | 32       | Purple & Dark Green |
| 3        | Black & Green     | 13       | Red & Orange      | 23       | Blue & Yellow     | 33       | Purple & Light Blue |
| 4        | Black & Blue      | 14       | Green & White     | 24       | Blue & Brown      | 34       | Purple & Yellow     |
| 5        | Black & Yellow    | 15       | Green & Blue      | 25       | Blue & Orange     | 35       | Purple & Brown      |
| 6        | Black & Brown     | 16       | Green & Yellow    | 26       | Brown & Yellow    | 36       | Purple & Black      |
| 7        | Black & Orange    | 17       | Green & Brown     | 27       | Brown & Orange    | 37       | Gray & White        |
| 8        | Red & White       | 18       | Green & Orange    | 28       | Orange & Yellow   |          |                     |
| 9        | Red & Green       | 19       | White & Blue      | 29       | Purple & Orange   |          |                     |
| 10       | Red & Blue        | 20       | White & Yellow    | 30       | Purple & Red      |          |                     |

**Color Code Chart No. 4 for Paired Cables**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|
| 1        | White & Blue      | 6        | Red & Blue        | 11       | Black & Blue      | 16       | Yellow & Blue     | 21       | Violet & Blue     |
| 2        | White & Orange    | 7        | Red & Orange      | 12       | Black & Orange    | 17       | Yellow & Orange   | 22       | Violet & Orange   |
| 3        | White & Green     | 8        | Red & Green       | 13       | Black & Green     | 18       | Yellow & Green    | 23       | Violet & Green    |
| 4        | White & Brown     | 9        | Red & Brown       | 14       | Black & Brown     | 19       | Yellow & Brown    | 24       | Violet & Brown    |
| 5        | White & Gray      | 10       | Red & Gray        | 15       | Black & Gray      | 20       | Yellow & Gray     | 25       | Violet & Gray     |

**Color Code Chart No. 5 for Paired Cables (Western Electric Standard)**

| Pair No. | Color Combination                         | Pair No. | Color Combination                     | Pair No. | Color Combination                         | Pair No. | Color Combination                           | Pair No. | Color Combination                           |
|----------|-------------------------------------------|----------|---------------------------------------|----------|-------------------------------------------|----------|---------------------------------------------|----------|---------------------------------------------|
| 1        | White/Blue Stripe & Blue/White Stripe     | 6        | Red/Blue Stripe & Blue/Red Stripe     | 11       | Black/Blue Stripe & Blue/Black Stripe     | 16       | Yellow/Blue Stripe & Blue/Yellow Stripe     | 21       | Purple/Blue Stripe & Blue/Purple Stripe     |
| 2        | White/Orange Stripe & Orange/White Stripe | 7        | Red/Orange Stripe & Orange/Red Stripe | 12       | Black/Orange Stripe & Orange/Black Stripe | 17       | Yellow/Orange Stripe & Orange/Yellow Stripe | 22       | Purple/Orange Stripe & Orange/Purple Stripe |
| 3        | White/Green Stripe & Green/White Stripe   | 8        | Red/Green Stripe & Green/Red Stripe   | 13       | Black/Green Stripe & Green/Black Stripe   | 18       | Yellow/Green Stripe & Green/Yellow Stripe   | 23       | Purple/Green Stripe & Green/Purple Stripe   |
| 4        | White/Brown Stripe & Brown/White Stripe   | 9        | Red/Brown Stripe & Brown/Red Stripe   | 14       | Black/Brown Stripe & Brown/Black Stripe   | 19       | Yellow/Brown Stripe & Brown/Yellow Stripe   | 24       | Purple/Brown Stripe & Brown/Purple Stripe   |
| 5        | White/Gray Stripe & Gray/White Stripe     | 10       | Red/Gray Stripe & Gray/Red Stripe     | 15       | Black/Gray Stripe & Gray/Black Stripe     | 20       | Yellow/Gray Stripe & Gray/Yellow Stripe     | 25       | Purple/Gray Stripe & Gray/Purple Stripe     |



# Belden® Color Code Charts

**Color Code Chart No. 6**

| Position No. | Color       | Position No. | Color              |
|--------------|-------------|--------------|--------------------|
| 1            | Brown       | 13           | White/Orange       |
| 2            | Red         | 14           | White/Yellow       |
| 3            | Orange      | 15           | White/Green        |
| 4            | Yellow      | 16           | White/Blue         |
| 5            | Green       | 17           | White/Purple       |
| 6            | Blue        | 18           | White/Gray         |
| 7            | Purple      | 19           | White/Black/Brown  |
| 8            | Gray        | 20           | White/Black/Red    |
| 9            | White       | 21           | White/Black/Orange |
| 10           | White/Black | 22           | White/Black/Yellow |
| 11           | White/Brown | 23           | White/Brown/Green  |
| 12           | White/Red   | 24           | White/Black/Blue   |

**Chart No. 9: IBM RISC System/6000**

| Cond. No. | Color             | Pair No. | Color Combination                     |
|-----------|-------------------|----------|---------------------------------------|
| 1         | White over Blue   | 1        | White over Blue & Blue over White     |
| 2         | White over Orange | 2        | White over Orange & Orange over White |
| 3         | White over Green  | 3        | White over Green & Green over White   |
| 4         | White over Brown  |          |                                       |
| 5         | White over Gray   |          |                                       |
| 6         | White over Red    |          |                                       |
| 7         | White over Yellow |          |                                       |

**Chart No. 10: Fiber Optics\***

| Fiber/Tube No. | Color  |
|----------------|--------|
| 1              | Blue   |
| 2              | Orange |
| 3              | Green  |
| 4              | Brown  |
| 5              | Slate  |
| 6              | White  |
| 7              | Red    |
| 8              | Black  |
| 9              | Yellow |
| 10             | Violet |
| 11             | Rose   |
| 12             | Aqua   |

\*Per TIA/EIA 598-A

**Color Code Chart No. 7 for Snake Cables**

| Pair No. | Color Combination     | Pair No. | Color Combination     | Pair No. | Color Combination     | Pair No. | Color Combination  |
|----------|-----------------------|----------|-----------------------|----------|-----------------------|----------|--------------------|
| 1        | Brown                 | 16       | Lt.Gray/Yellow Stripe | 31       | Lt.Blue/Violet Stripe | 46       | Lime/Black Stripe  |
| 2        | Red                   | 17       | Lt.Gray/Green Stripe  | 32       | Lt.Blue/Gray Stripe   | 47       | Lime/Tan Stripe    |
| 3        | Orange                | 18       | Lt.Gray/Blue Stripe   | 33       | Lt.Blue/White Stripe  | 48       | Lime/Pink Stripe   |
| 4        | Yellow                | 19       | Lt.Gray/Violet Stripe | 34       | Lt.Blue/Black Stripe  | 49       | Aqua/Brown Stripe  |
| 5        | Green                 | 20       | Lt.Gray/Gray Stripe   | 35       | Lt.Blue/Tan Stripe    | 50       | Aqua/Red Stripe    |
| 6        | Blue                  | 21       | Lt.Gray/White Stripe  | 36       | Lt.Blue/Pink Stripe   | 51       | Aqua/Orange Stripe |
| 7        | Violet                | 22       | Lt.Gray/Black Stripe  | 37       | Lime/Brown Stripe     | 52       | Aqua/Yellow Stripe |
| 8        | Gray                  | 23       | Lt.Gray/Tan Stripe    | 38       | Lime/Red Stripe       | 53       | Aqua/Green Stripe  |
| 9        | White                 | 24       | Lt.Gray/Pink Stripe   | 39       | Lime/Orange Stripe    | 54       | Aqua/Blue Stripe   |
| 10       | Black                 | 25       | Lt.Blue/Brown Stripe  | 40       | Lime/Yellow Stripe    | 55       | Aqua/Violet Stripe |
| 11       | Tan                   | 26       | Lt.Blue/Red Stripe    | 41       | Lime/Green Stripe     | 56       | Aqua/Gray Stripe   |
| 12       | Pink                  | 27       | Lt.Blue/Orange Stripe | 42       | Lime/Blue Stripe      | 57       | Aqua/White Stripe  |
| 13       | Lt.Gray/Brown Stripe  | 28       | Lt.Blue/Yellow Stripe | 43       | Lime/Violet Stripe    | 58       | Aqua/Black Stripe  |
| 14       | Lt.Gray/Red Stripe    | 29       | Lt.Blue/Green Stripe  | 44       | Lime/Gray Stripe      | 59       | Aqua/Tan Stripe    |
| 15       | Lt.Gray/Orange Stripe | 30       | Lt.Blue/Blue Stripe   | 45       | Lime/White Stripe     | 60       | Aqua/Pink Stripe   |

**Color Code Chart No. 8 for DataTwist® Cables (Modified Western Electric)**

| Pair No. | Color Combination                     | Pair No. | Color Combination                     | Pair No. | Color Combination                         | Pair No. | Color Combination                           | Pair No. | Color Combination                           |
|----------|---------------------------------------|----------|---------------------------------------|----------|-------------------------------------------|----------|---------------------------------------------|----------|---------------------------------------------|
| 1        | White/Blue Stripe & Blue              | 6        | Red/Blue Stripe & Blue/Red Stripe     | 11       | Black/Blue Stripe & Blue/Black Stripe     | 16       | Yellow/Blue Stripe & Blue/Yellow Stripe     | 21       | Purple/Blue Stripe & Blue/Purple Stripe     |
| 2        | White/Orange Stripe & Orange          | 7        | Red/Orange Stripe & Orange/Red Stripe | 12       | Black/Orange Stripe & Orange/Black Stripe | 17       | Yellow/Orange Stripe & Orange/Yellow Stripe | 22       | Purple/Orange Stripe & Orange/Purple Stripe |
| 3        | White/Green Stripe & Green            | 8        | Red/Green Stripe & Green/Red Stripe   | 13       | Black/Green Stripe & Green/Black Stripe   | 18       | Yellow/Green Stripe & Green/Yellow Stripe   | 23       | Purple/Green Stripe & Green/Purple Stripe   |
| 4        | White/Brown Stripe & Brown            | 9        | Red/Brown Stripe & Brown/Red Stripe   | 14       | Black/Brown Stripe & Brown/Black Stripe   | 19       | Yellow/Brown Stripe & Brown/Yellow Stripe   | 24       | Purple/Brown Stripe & Brown/Purple Stripe   |
| 5        | White/Gray Stripe & Gray/White Stripe | 10       | Red/Gray Stripe & Gray/Red Stripe     | 15       | Black/Gray Stripe & Gray/Black Stripe     | 20       | Yellow/Gray Stripe & Gray/Yellow Stripe     | 25       | Purple/Gray Stripe & Gray/Purple Stripe     |





## Standards Reference Guide

### National Electrical Code (NEC)<sup>®</sup> Catalog Reference Information

The National Electrical Code is a set of guidelines describing procedures which minimize the hazards of electrical shock, fires, and explosions caused by electrical installation. The text of the NEC is contained in nine chapters, each chapter broken into individual articles.

NEC types are acronyms consisting of a prefix describing cable type (e.g. coax, CATV, fiber optic) and a suffix indicating the type of flame test it has passed and where it can be installed. Articles describing wire and cable products — including required cable markings — are listed in the chart to the right.

#### Impact of the NEC

Almost everyone involved with wire and cable is affected by the National Electrical Code. In particular, the following groups must incorporate NEC guidelines into their work: OEM engineers, wire product engineers, distributors, installers, and architects.

Although NEC covers wire and cable installed in factories, office buildings, hotels, motels, apartment buildings, residences, and all cables which pass through any floor, wall, ceiling, or which travel in ducts, plenums, and other air handling spaces, each individual municipality, city, county, or state can decide whether or not they wish to adopt the 1996 NEC as law. Local authorities having jurisdiction enforce their own codes. They have the right to accept or refuse any installation in accordance with their own local laws. One of the organizations local inspectors rely on to test wire and cable is Underwriters Laboratories (UL).

#### Intended Uses of Appliance Wiring Materials (AWM)

In the past, AWM cable was incorrectly used to wire buildings—this was never its intended use.

AWM cable is intended for internal wiring of factory-assembled, listed appliances such as computers, business machines, ranges, washers, dryers, radios, and televisions.

In some cases, AWM cable may be used for external connection. In these situations, the user should be aware that AWM cable temperatures and voltage ratings may differ from NEC ratings.

| NEC Article/Type | Description                                                                                                                                                                            | Plenum | Riser  | Commercial | Residential |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|------------|-------------|
| 725 <b>CL2</b>   | Class 2 cables                                                                                                                                                                         | CL2P   | CL2R   | CL2        | CL2X*       |
| <b>CL3</b>       | Class 3 cables                                                                                                                                                                         | CL3P   | CL3R   | CL3        | CL3X*       |
| <b>PLTC</b>      | A stand-alone class. This is a power limited tray cable — a CL3-type cable which can be used outdoors. Is sunlight- and moisture-resistant and must pass the Vertical Tray flame test. | (none) | (none) | PLTC       | (none)      |
| 760 <b>FPL</b>   | Power limited, fire protective signaling circuit cable                                                                                                                                 | FPLP   | FPLR   | FPL        | (none)      |
| 770 <b>OFC</b>   | Fiber cable also containing metallic conductors                                                                                                                                        | OFCP   | OFCR   | OFCG, OFC  | (none)      |
| <b>OFN</b>       | Fiber cable only containing optical fibers                                                                                                                                             | OFNP   | OFNR   | OFNG, OFN  | (none)      |
| 800 <b>CM</b>    | Communications                                                                                                                                                                         | CMP    | CMR    | CMG, CM    | CMX*        |
| <b>MP</b>        | Multi-Purpose Cables                                                                                                                                                                   | MPP    | MPR    | MPG, MP    | (none)      |
| 820 <b>CATV</b>  | Community antenna television and radio distribution system                                                                                                                             | CATVP  | CATVR  | CATV       | CATVX**     |
| 830 <b>BM</b>    | Network-powered broadband communications cable                                                                                                                                         | BLP    | BMR    | BM         | BLX         |

\*Cable diameter must be less than 0.250"

\*\*Cable diameter must be less than 0.375"

### C(UL) Certifications

UL/NEC-Approved cables may also be C(UL)/CEC-Approved as communications cables meeting the requirements of the Bi-National Standard CSA C22.2 No. 214/UL 444 and Section 60 of the Canadian Electrical Code, Part I (CEC). The C(UL) cable designation (and its meaning) would be one of the following:

1. **CMP** — Cable meeting CSA FT6 or UL 910;
2. **CMR** — Cable meeting UL 1666;
3. **CMG** — Cable meeting CSA FT4;
4. **CM** — Cable meeting UL 1581, Sec. 1160 (Vertical-Tray);
5. **CMX** — meeting UL 1581, Sec. 1080 (VW-1);
6. **CMH** — Cable meeting CSA FT1.

NOTE: The CSA flame tests are defined in CSA C22.2 No. 0.3 as follows:

#### FT1 Vertical Flame Test — per C.S.A. C22.2 No. 0.3-92 Para 4.11.1

A finished cable shall not propagate a flame or continue to burn for more than one (1) minute after five (5) fifteen (15) second applications of the test flame. There is an interval of fifteen (15) seconds between flame applications. The flame test shall be performed in accordance with Para 4.11.1 of Canadian Standards Association (CSA) Standard C22.2 No. 0.3. In addition, if more than 25% of the indicator flag is burned, the test cable fails.

#### FT4 Vertical Flame Test — Cables in Cable Trays per C.S.A. C22.2 No. 0.3-92 Para 4.11.4

The FT4 Vertical Flame Test — Cables in Cable Trays is similar to the UL-1581 Vertical Tray Flame Test, but is more severe. The FT4 test has its burner mounted at 20° from the horizontal with the burner ports facing up. The UL-1581 Vertical Tray has its burner at 0° from the horizontal. The FT4 samples must be larger than 13mm (.512") in diameter.

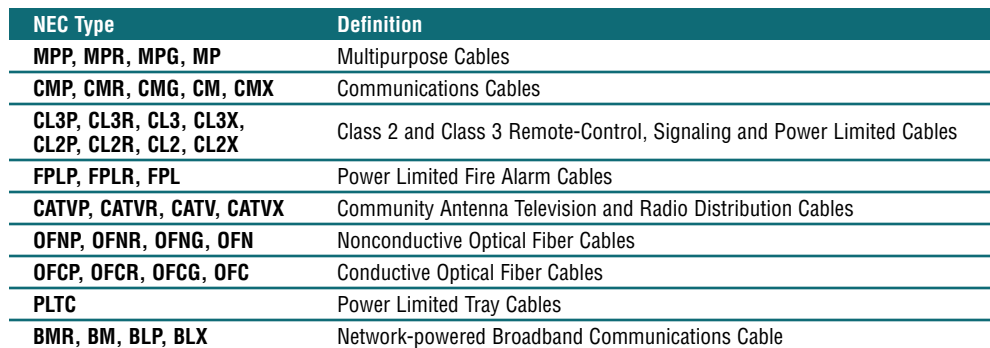
If not, then the cable samples are grouped in units of at least three (3) to obtain a grouped overall diameter of 13mm. The UL-1581 Vertical Tray does not distinguish on cable size. The FT4 has a maximum char height of 1.5 m (59") measured from the lower edge of the burner face. The UL-1581 has a flame height allowable up to approximately 78" measured from the burner.

#### FT6 Horizontal Flame & Smoke Test — per C.S.A. C22.2 No. 0.3-92 Appendix B

Belden<sup>®</sup> products passing the FT6 Horizontal Flame and Smoke Test are designated FT6 in the column where the trade number appears. This test is for cables which must pass a Horizontal Flame and Smoke Test in accordance with ANSI/NFPA Standard 262-1985 (UL-910). The maximum flame spread shall be 1.50 meters (4.92 ft.). The smoke density shall be 0.5 at peak optical density and 0.15 at maximum average optical density.



## Per 2002 NEC®



National Electrical Code and NEC are registered trademarks of the National Fire Protection Association, Inc., Quincy, MA.

## Glossary of Terms

**5-Mil Copper** — Solid Copper Shield. Provides added electrical protection.

**802.14** — IEEE's Cable TV MAC and PHY Protocol Working Group.

**A** — Ampere.

**ABR** — Available Bit Rate.

**Abrasion Resistance** — Ability of a wire, cable or material to resist surface wear.

**Abrasion Stripper** — More accurately described as "buffing stripper," which is a motorized device for removing flat cable insulation by means of one or two buffing wheels that melt the insulation and brush it away from the conductors.

**AC** — Alternating current. Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

**Accelerated Aging** — A test that simulates long time environmental conditions in a relatively short time.

**ACR** — Attenuation Crosstalk Ratio. The difference between attenuation and crosstalk, measured in dB, at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals imposed on that same pair by crosstalk from other pairs.

**ADSL** — Asymmetric Digital Subscriber Line.

**AES/EBU** — Informal name of a digital audio standard established jointly by the AES (Audio Engineering Society) and EBU (European Broadcast Union) organizations.

**AF** — Audio frequency.

**Air Core** — Cables that are not gel filled.

**Air-Gap Dielectric** — A coaxial design in which a monofilament of plastic holds the center conductor in place in a hollow plastic tube allowing the remainder of the dielectric to be air. Typical velocities of up to 84% can be achieved in this design.

**Alloy** — A combination of two or more different polymers/metals. Usually combined to make use of different properties of each polymer/metal.

**Alpeth** — Coated Aluminum Polyethylene. Basic sheath.

**Alternating Current (AC)** — Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

**AM** — Amplitude modulation.

**Ambient** — Conditions that exist in the environment of the cable. Conditions existing at a test or operating location prior to energizing equipment (e.g. ambient temperature).

**American Wire Gage (AWG)** — A standard for expressing wire diameter. As the AWG number gets smaller, the wire diameter gets larger.

**Ampacity** — Current handling capability expressed in amperes. The maximum current a conductor can carry without being heated beyond a safe limit.

**Ampere** — A standard unit of current. Defined as the amount of current that flows when one volt of electromotive force (EMF) is applied across one ohm of resistance. One ampere of current is produced by one coulomb of charge passing a point in one second.

**Amplitude** — The magnitude of a current or voltage. It can be the maximum, minimum, average or RMS value of an alternating current (AC) signal. These four magnitudes are the same for a direct current (DC) signal.

**Analog** — Representation of data by continuously variable quantities as opposed to a finite number of discrete quantities in digital.

**Analog Signal** — An electrical signal which varies continuously, not having discrete values. Analog signals are copies or representations of other waves in nature. An analog audio signal, for instance, is a representation of the pressure waves which make up audible sound.

**Anneal** — To soften and relieve strains in any solid material, such as metal or glass, by heating to just below its melting point and then slowly cooling it. Annealing generally lowers the tensile strength of the material, while improving its flex life and flexibility.

**ANSI** — American National Standards Institute.

**ASP** — Aluminum Steel Polyethylene. Provides mechanical and electrical protection.

**ASTM** — The American Society for Testing and Materials, a standards organization which suggests test methods, definitions and practices.

**Asynchronous Transfer Mode** — The SONET standard for a packet switching technique which uses packets of a fixed length.

**ATM** — Asynchronous Transfer Mode.

**Attenuation** — The decrease in magnitude of a signal as it travels through any transmitting medium, such as a cable or circuitry. Attenuation is usually expressed logarithmically as the ratio of the original and decreased signal amplitudes. It is usually expressed in decibels (dB).

**Audio** — A term used to describe sounds within the range of human hearing (20 Hz to 20 kHz). Also used to describe devices which are designed to operate within this range.

**Audio Frequency** — Frequencies within the range of human hearing (approximately 20 Hz to 20 kHz).

**AWG** — American Wire Gage. A wire diameter specification. The smaller the AWG number, the larger the wire diameter.

**AWM** — Appliance Wiring Material. A UL designation for a type of wire.

**Backbone** — The cable used to connect all systems of a multi-level distributed system to an intermediate system.

**Backshell** — Housing on a connector that covers the area where the cable conductors connect to the connector contacts. It can be a metal housing providing continuity of the shield through IDC connectors.

**Balanced Line** — A cable having two identical conductors which carry voltages opposite in polarity, but equal in magnitude with respect to ground, suitable for differential signal transmission.

**Balun** — Balanced to unbalanced (Bal-un) transformer used to connect an unbalanced transmission line (i.e. coaxial cable) to a balanced system or cable, or vice versa. It can also provide impedance transformation, as 300 ohm balanced to 75 ohm unbalanced.

**Bandwidth** — The difference between the upper and lower limits of a given band of frequencies. It is expressed in Hertz. The range of frequencies that a transmitted communications signal occupies or that a receiving system can accept. For example, it takes more bandwidth to download a photograph in a second than to download a page of text. Virtual reality and three-dimensional audio/visual presentations require even more.

**Baud** — Rate of digital transmission equal to the reciprocal of the time of one output signaling element.

**Bel** — A unit that represents the logarithm of the ratio of two levels. One bel equals the base 10 logarithm of the ratio of two power levels. It is also equal to the base 10 logarithm of square of the ratio of two voltage or current levels, provided the impedances are the same at the two levels. (See dB.)

**Belden** — A leading manufacturer of the specialty wire, cable and fiber products needed for new applications in data, audio, video and voice signal transmission, among other things.

**Beldfoil®** — Belden trademark for highly effective electrostatic shield of reinforced metallic foil.

**Beldsol™** — Solderable Belden magnet wire combining insulating films of polyurethane for excellent dielectric characteristics and nylon for mechanical protection.

**Bend Loss** — A form of increased attenuation caused by (a) having an optical fiber curved around a restrictive radius of curvature or (b) microbends caused by minute distortions in the fiber imposed by externally induced perturbations.

**Bend Radius** — Radius of curvature that a flat, round fiber optic or metallic cable can bend without any adverse effects.

**Binder** — A tape or thread used for holding assembled cable components in place.

**Bit** — One binary digit.

**Bit Error Rate** — The number of errors occurring in a system per unit of time (e.g. bits per second).

**Bits Per Second** — The number of binary bits that can be transmitted per second (bps), i.e. Mbps (Mega = million), Gbps (Giga = billion).

**BNC** — Abbreviation for "Bayonet Neil-Concelman." A coaxial cable connector used extensively in video and RF applications and named for its inventors.





# Glossary of Terms

**Bonded** — 1. Adhesive application of a metallic shielding tape to the dielectric of a coaxial cable to improve electrical performance and ease of connector installation. Also refers to adhesive application of a metallic shielding taper to the jacket of a cable. 2. Steel is bonded to polyethylene with a copolymer adhesive. All Stalpeth and some ASP cables are bonded. Provides extra strength to jacket, primarily used in underground applications.

**Bonded ASP** — Aluminum Steel Polyethylene where the steel is bonded to polyethylene for strength. Filled cables for use in ducts.

**Bonding** — The method used to produce good electrical contact between metallic parts of any device. Used extensively in automobiles and aircraft to prevent static buildup. Also refers to the connectors and straps used to bond equipment.

**Booster** — An amplifier inserted into a cable to increase the signal amplitude in order to compensate for signal loss due to attenuation. This extends the transmission range of the cable. Transformers may be employed to boost AC voltages. The term booster is also applied to amplifiers used in television receiving antenna systems.

**BPS** — Bits per second. (See *Bits Per Second*.)

**BPSK** — Binary Phase Shift Keying. A type of digital transmission where two phases of the signal are possible to represent binary one and zero.

**Braid** — A group of textile or metallic filaments interwoven to form a tubular flexible structure which may be applied over one or more wires or flattened to form a strap.

**Braid Angle** — The angle between a strand of wire in a braid shield and the longitudinal axis (i.e. axis along the length of the center) of the cable it is wound around.

**Breakdown Voltage** — The voltage at which the insulation between two conductors will fail and allow electricity to conduct or "arc."

**Breakout** — The point at which a conductor or conductors are separated from a multi-conductor cable to complete circuits at various points along the main cable.

**BRI** — Basic Rate Interface ISDN.

**Broadband** — The technique used to multiplex multiple networks on a single cable without interfering with each other. Technologies that allow you to transmit or receive higher volumes of data at higher speeds.

**Buffer** — A protective coating over an optical fiber.

**Buffing Stripper** — A motorized device for removing flat cable insulation by means of one or two buffing wheels that melt the insulation and brush it away from the conductors. Also called Abrasion Stripper.

**Bunch Strand** — Conductors twisted together with the same lay and direction without regard to geometric pattern.

**Buried** — Cables that are required to go underground.

**Bus-bar Wire** — Uninsulated tinned copper wire used as a common lead.

**Butyl Rubber** — A synthetic rubber with good electrical insulating properties.

**Byte** — A group of eight adjacent binary digits (8 bits).

**C** — Capacitance (electrical). Celsius (temperature).

**Cable** — A group of individually insulated conductors or subcomponents twisted helically.

**Cable Modem** — A device that enables you to hook up your PC to a local cable TV line and receive data at much faster rates than telephone modems and ISDN lines. A strong competitor to DSL telephone service.

**Cabling** — The grouping or twisting together of two or more insulated conductors or subcomponents to form a cable.

**CACSP** — Coated Aluminum, Coated Steel, Polyethylene. Provides additional strength and protection.

**Canadian Electrical Code (CEC)** — Canadian version of the US National Electrical Code (NEC).

**CAP** — Carrierless Amplitude Phase Modulation.

**Capacitance** — The ability of a dielectric material between conductors to store energy when a difference of potential exists between the conductors. The unit of measurement is the farad. Cable capacitance is usually measured in picofarads (pF).

**Capacitive Crosstalk** — Cable crosstalk or interference resulting from the coupling of the electrostatic field of one conductor upon one or more others.

**Capacitive Reactance** — The opposition to alternating current due to the capacitance of a capacitor, cable or circuit. It is measured in ohms and is equal to  $1/(2 \cdot \pi \cdot f \cdot C)$  where  $\pi$  is approximately 3.1416,  $f$  is the frequency in Hz and  $C$  is the capacitance in farads.

**Capacitor** — Two conducting surfaces separated by a dielectric material. The capacitance is determined by the area of the surfaces, type of dielectric and spacing between the conducting surfaces.

**Carrier Strip** — Also referred to as substrate. A film that is on one side of a laminated flat cable.

**CASPIC** — Coated Aluminum, Coated Steel.

**Category** — Rating of a local area network (LAN) cable established by TIA/EIA to indicate the level of electrical performance.

**Category Cables** — Belden manufactures Category 3 to 7 cables, all high performance twisted pair data cables. The higher the category number, the greater the bandwidth. Category 7 is currently the highest performance telecommunication wire available. Ours is certified to applicable UL standards.

**CATV** — Abbreviation for Community Antenna Television. Cable TV.

**CB** — Citizens band.

**CBR** — Constant Bit Rate.

**CCTV** — Closed-circuit television.

**Cellular Polyethylene** — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium. The result is a desirable reduction of the dielectric constant compared to solid polyethylene, which decreases attenuation and increases the velocity of propagation.

**Center-to-Center Distance** — Pitch. Nominal distance from center-to-center of adjacent conductors within a cable. When conductors are flat, pitch is usually measured from the reference edge of a conductor to the reference edge of the adjacent conductor.

**Channel** — The horizontal cable including the workstation outlet and patch panel in the telecommunications closet plus a maximum combined length of up to ten meters of patch cable at each end (maximum length of 100 meters).

**Characteristic Impedance** — In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals.

**Chrominance Signal** — The portion of a video signal that contains the color information.

**Circuit** — A system of conducting media designed to pass an electric current.

**Circular Mil** — Area of a wire that is one-thousandth of an inch (.001 inch, one mil) in diameter. This area is  $\pi/4$  of a square mil. The circular mil area (CMA, cmil) equals the diameter in mils squared. By knowing the CMA of various conductors, they can be used to determine what conductivity and gage size various combinations will produce.

**Cladding** — A low refractive index material that surrounds the core of an optical fiber causing the transmitted light to travel down the core and protects against surface contaminant scattering or a layer of metal applied over another. Cladding is often chosen to improve conductivity or to resist corrosion.

**CO** — Central Office.

**Coaxial Cable** — A cylindrical transmission line composed of a conductor centered inside a metallic tube or shield, separated by a dielectric material, and usually covered by an insulating jacket. Used by cable TV companies to distribute signals to homes and businesses. Also used by telephone companies in some applications and by cellular telephone, radio and television installations.

**Coil Effect** — The inductive effect exhibited by a spiral-wrapped shield, especially above audio frequencies.

**Color Code** — A system of different colors or stripes used to identify components of cables such as individual conductors or groups of conductors.

**COLS** — Commercial Online Service.



## Glossary of Terms

**Component Video** — The unencoded output of a camera, video tape recorder, etc., whereby each red, green, and blue video signal is transmitted down a separate cable (usually coax) to improve picture quality. Can also refer to a video system where the luminance and chrominance video components are kept separate.

**Composite Cable** — Cable having conductors with two or more AWG sizes or more than one cable type.

**Composite Video** — The encoded output of a camera, video tape recorder, etc., whereby the red, green and blue video signals are combined with the synchronizing, blanking and color burst signals and are transmitted simultaneously down one cable.

**Concentric Stranding** — A group of uninsulated wires twisted together and containing a center core with subsequent layers spirally wrapped around the core with alternating lay directions to form a single conductor.

**Conductivity** — The ability of a material to allow electrons to flow, measured by the current per unit of voltage applied. It is the reciprocal of resistivity and is measured in siemens (S) or mhos.

**Conductor** — A substance, usually metal, used to transfer electrical energy from point to point.

**Conduit** — A tube of metal or plastic through which wire or cable can be run. Used to protect the wire or cable and, in the case of metal conduit, to contain the fire of a burning wire or cable.

**Connector** — A device designed to allow electrical flow from one wire or cable to a device on another cable. A connector will allow interruption of the circuit or the transfer to another circuit without any cutting of wire or cable or other preparation.

**Copperweld®** — Trademark of Copperweld Steel Co. for copper-clad steel conductor.

**Cord** — A very flexible insulated cable.

**Core** — The light conducting central portion of an optical fiber with a refractive index higher than that of the cladding. The center of a cable construction. Most often applies to a coaxial cable, where the core is the center conductor and the dielectric material applied to it.

**Corona** — The ionization of gasses about a conductor that results when the potential gradient reaches a certain value.

**Coupling** — The transfer of energy (without direct electrical contact) between two or more cables or components of a circuit.

**Coverage** — How well a metal shield covers the underlying surface. Measured in percent.

**CPE** — Chlorinated polyethylene can be used as either a thermoplastic or thermoset. It is a tough chemical- and oil-resistant material and makes an excellent jacket for industrial control cable. As a thermoset, it can be used as an oil-resistant cord jacket. Other outstanding properties include low water absorption and superior crush resistance, which are important attributes in industrial control applications.

**CPS** — Abbreviation for cycles per second. This term has been replaced by Hertz in common usage.

**CPU** — Central Processing Unit.

**Crosstalk** — A type of interference caused by signals from one pair or cable being coupled into adjacent pairs or cables. Can occur with audio, data or RF signals.

**CRT** — Cathode Ray Tube.

**CSA** — Abbreviation for Canadian Standards Association, the Canadian version of the Underwriters Laboratories.

**CSMA/CD** — Carrier Sense Multiple Access/ Collision Detection.

**CSR** — Customer Service Representative.

**CUPIC** — Copper.

**Current Carrying Capacity** — The maximum current a conductor can carry without being heated beyond a safe limit. Ampacity.

**Current Loop** — A two wire transmit/receive interface.

**Current, Alternating (AC)** — Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

**Current, Direct (DC)** — Electrical current whose electrons flow in one direction only and is generally constant.

**Cut-through Resistance** — A test to determine the ability of a material to withstand the application of blades or sharp edges without being cut.

**D1** — A component digital video recording format that conforms to the CCIR-601 standard. Records on 19 mm magnetic tape. (Often used incorrectly to indicate component digital video.)

**D2** — A composite digital video recording format. Records on 19 mm magnetic tape.

**D3** — A composite digital video recording format. Records on 1/2 inch (12.7 mm) magnetic tape.

**Daisy Chain** — A cable assembly with three or more termination areas.

**Datalene®** — Belden trademark for foam polyolefin.

**DAVIC** — Digital Audio Video Council.

**dB** — Decibel.

**DBS** — Direct Broadcast Satellite.

**DC** — Direct current.

**DC Resistance** — See *Resistance*.

**Decibel (dB)** — A decibel is one-tenth of a bel and is equal to 10 times the logarithm of the power ratio, 20 times the log of the voltage ratio, or 20 times the log of the current ratio. Decibels are also used to express acoustic power, such as the apparent level of a sound. The decibel can express an actual level only when comparing with some definite reference level that is assumed to be zero dB.

**Delay Line** — A transmission line or equivalent device designed to delay a wave or signal for a specific length of time.

**DEPIC** — Dual Expanded Plastic Insulated Conductor (Foam Skin). Decreases outside diameter of cable.

**Derating Factor** — A multiplier used to reduce the current carrying capacity of conductors in more adverse environments, such as higher temperature, or where multiple conductors are together in one conduit.

**DES** — Data Encryption Standard.

**DHCP** — Dynamic Host Configuration Protocol.

**Dielectric** — An insulating (nonconducting) medium. It is the insulating material between conductors carrying a signal in a cable. In coaxial cables it is between the center conductor and the outer conductor. In twisted pair cables it is the insulation between conductors plus any surrounding air or other material.

**Dielectric Breakdown** — Any change in the properties of a dielectric that causes it to become conductive. Normally a catastrophic failure of an insulation because of excessive voltage.

**Dielectric Constant** — Also called relative permittivity. That property of a dielectric which determines the amount of electrostatic energy that can be stored by the material when a given voltage is applied to it. Actually, the ratio of the capacitance of a capacitor using the dielectric to the capacitance of an identical capacitor using a vacuum (which has a dielectric constant of 1) as a dielectric. A number which indicates the quality of a material to resist holding an electrical charge when placed between two conductors.

**Dielectric Heating** — The heating of an insulating material when placed in a radio-frequency field, caused by internal losses during the rapid polarization reversal of molecules in the material.

**Dielectric Loss** — The power dissipated in a dielectric as the result of the friction produced by molecular motion when an alternating electric field is applied.

**Dielectric Strength** — The voltage an insulation can withstand before it breaks down. Usually expressed as volts per mil.

**Dielectric Withstand Voltage** — The voltage an insulation can withstand before it breaks down. Usually expressed as volts per mil.

**Digital Signal** — An electrical signal which possesses two distinct states (on/off, positive/negative).

**Dispersion** — The cause of bandwidth limitations in an optical fiber. Dispersion causes a broadening of input pulses along the length of the fiber. Two major types are (a) mode dispersion caused by differential optical path lengths in a multimode fiber, and (b) material dispersion caused by a differential delay of various wavelengths of light in a wave guide material.

**Distortion** — Any undesired change in a wave form or signal.

**Distribution Cable** — In a CATV system, the transmission cable between the distribution amplifier and the drop cable.

# Glossary of Terms

**Disturbed Conductor** — A conductor that receives energy generated by the field of another conductor or an external source, e.g. the quiet line.

**DMT** — Discrete Multitone.

**DOCSIS** — Data Over Cable Service Interface Specification™. Defines interface requirements for cable modems involved in high-speed data distribution over cable television system networks.

**Drain Wire** — A non-insulated wire in contact with parts of a cable, usually the shield, and used in the termination to that shield and as a ground connection.

**Drop Cable** — In a CATV system, the transmission cable from the distribution cable to a dwelling.

**DSL** — Digital Subscriber Line. A technology for bringing high-bandwidth information to homes and small businesses over ordinary copper telephone lines. A DSL line can carry both data and voice signals, with the data part of the line remaining continuously connected. Currently competes with the cable modem in bringing broadband services to homes and small businesses.

**Duobond® II** — Belden trademark for a laminated shielding tape consisting of heat sensitive adhesive, aluminum foil, polyester or polypropylene and aluminum foil.

**Duobond Plus®** — Belden trademark for a foil/braid/foil connection with a shorting fold in the outermost shield.

**Duofoil®** — Belden trademark for a shield in which metallic foil is applied to both sides of a supporting plastic film.

**DVB** — Digital Video Broadcasting.

**E** — Voltage (electromotive force).

**Earth** — British terminology for zero-reference ground.

**Edge Margin** — Margin.

**EPF** — Electronic Field Production. Video production for commercials, television shows and other non-news purposes done outside the studio.

**EIA** — Electronic Industries Association (formerly RMA or RETMA).

**Elastomer** — Any material that will return to its original dimensions after being stretched or distorted.

**Electromagnetic** — Referring to the combined electric and magnetic fields caused by electron motion through conductors.

**Electromagnetic Coupling** — The transfer of energy by means of a varying magnetic field. Inductive coupling.

**Electron Volt** — A measure of the energy gained by an electron passing through an electric field produced by one volt.

**Electrostatic** — Pertaining to static electricity or electricity at rest. An electric charge, for example.

**Electrostatic Coupling** — The transfer of energy by means of a varying electrostatic field. Capacitive coupling.

**ELFEXT** — Equal Level Far End Crosstalk (dB). A subtraction of attenuation from FEXT. By subtracting the attenuation, ELFEXT negates the effects of attenuation on the interference as it propagates down the cable, thus bringing it to an equal level.

**Elongation** — The increase in length of a wire or cable caused by longitudinal tension.

**EMF** — Electromotive force (voltage).

**EMI** — Electromagnetic Interference.

**Energy** — The capability of doing work.

**Energy Dissipation** — Loss of energy from a system due to the conversion of work energy into an undesirable form, usually heat. Dissipation of electrical energy occurs when current flows through a resistance.

**ENG** — Electronic News Gathering.

**EPDM** — Ethylene-propylene-diene monomer rubber. A chemically cross-linked elastomer with good electrical insulating properties and excellent flexibility at high and low temperatures. It has good insulation resistance and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM has better cut-through resistance than Silicone rubber, which it replaces in some applications.

**EPR** — Ethylene-propylene copolymer rubber. A material with good electrical insulating properties.

**Equilay** — More than one layer of helically laid wires with the length of the lay the same for each layer.

**ETP** — Abbreviation for a copper refining process called Electrolytic Tough Pitch. This process produces a conductor that is 99.95% pure copper (per ASTM B115) resulting in high conductivity.

**eV** — Electron volt.

**Expanded Polyethylene** — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of the dielectric constant.

**Extruded Cable** — Conductors are simultaneously insulated and the cable is formed by a continuous extrusion process.

**f** — Frequency.

**Farad** — A unit of capacity that will store one coulomb of electrical charge when one volt of electrical pressure is applied.

**FAS** — Fire Alarm and Signal Cable, CSA (Canadian Standards Association) Cable Designation.

**FAQ** — Frequently Asked Question.

**FCFC** — Abbreviation for flat conductor flat cable.

**FDDI** — Fiber Distributed Data Interface.

**FEC** — Forward Error Correction.

**Feedback** — Energy that is extracted from a high-level point in a circuit and applied to a lower level. Positive feedback reduces the stability of a device and is used to increase the sensitivity or produce oscillation in a system. Negative feedback, also called inverse feedback, increases the stability of a system as the feedback improves stability and fidelity.

**Feeder Cable** — In a CATV system, the transmission cable from the head end (signal pickup) to the trunk amplifier. Also called a trunk cable.

**FEP** — Fluorinated ethylene-propylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.

**Ferrous** — Composed of and/or containing iron. A ferrous metal exhibits magnetic characteristics.

**FEXT** — Far End Crosstalk. Crosstalk induced on the pairs, measured at the far end of the cable, referenced to the near end input signal. Usually expressed in decibels (dB).

**Fiber** — A single, separate optical transmission element characterized by core and cladding.

**Fiber Optics** — Light transmission through optical fibers for communication and signaling. A technology that transmits information as light pulses along a glass or plastic fiber. Optical fiber carries much more information than conventional copper wire and is generally not subject to interference. Most telephone company long-distance lines are optical fiber. See RUS 1755.900.

**Fiber to the home (FTTH)** — A technology that provides voice, data and video services from the phone company's branch office to local customers over an all-fiber optic link. Still in its infancy, FTTH technology is substantially more expensive and labor-intensive to install and maintain than competing technologies.

**Field** — An area through which electric and/or magnetic lines of force pass.

**Filled** — Cables that are gel filled.

**Fillers** — Non-conducting components cabled with the insulated conductors or optical fibers to impart roundness, flexibility, tensile strength or a combination of all three to the cable.

**Flamarrest®** — Belden trademark for a plenum grade chloride-based thermoplastic jacketing material with low smoke and low flame spread properties; more flexible than traditional fluorocopolymer jacket materials. Cables jacketed with Flamarrest meet the UL Standard 910, Plenum Cable Flame Test.

**Flame Resistance** — The ability of a material not to fuel a flame once the source of heat is removed.

**Flat Cable** — Also referred to as planar and/or ribbon cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

**Flat Conductor** — A conductor with a width-to-thickness ratio of arbitrarily 5 to 1 or greater.

**Flat Conductor Cable** — A flat cable with a plurality of flat conductors.



# Glossary of Terms

**Flex Life** — The qualification of the number of times a cable may bend before breaking.

**Flexibility** — The ability of a cable to bend in a short radius. The ability of a cable to lay flat or conform to a surface as with microphone cables.

**Floating** — Referring to a circuit which has no connection to ground.

**Fluorocopolymer** — Generic term for PVDF.

**FM** — Frequency modulation.

**Foam Polyethylene** — Expanded or “foam” polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of the dielectric constant.

**FR-TPE** — FR-TPE, flame retarded thermoplastic elastomer, is a rubber-like plastic that has properties similar to rubber yet is processed as a thermoplastic. It is used as the insulation and jacket in an all TPE construction which meets UL 13 and 1277 industrial cable requirements. It has good electrical properties, abrasion resistance, colorability and flame retardance. This compound is ideal for cold weather applications.

**FREP** — Flame retardant ethylene propylene is a special flame retardant version of EPDM rubber. It is designed for use as an industrial control insulation and has excellent electrical characteristics, deformation resistance and also meets the flame retardant needs of industrial control cables.

**Frequency** — The number of times a periodic action occurs in one second. Measured in Hertz.

**Frequency Response** — The amplitude versus frequency characteristics of a device. Also may refer to the range of frequencies over which the device operates within prescribed performance.

**Frequency, Power** — Normally, the 50 or 60 Hz power used to operate most AC powered equipment. The frequency of AC power supplied by electric utilities companies.

**FSK** — Frequency Shift Keying.

**FTTC** — Fiber-to-the-Curb.

**Gage** — The physical diameter of a wire. A standard for expressing wire diameter. As the AWG number gets smaller, the wire diameter gets larger.

**Gain** — The increase of voltage, current, or power over a standard or previous reading. Usually expressed in decibels (dB).

**Geosol** — A solderable, extra tough film insulation developed by Belden for use in geophysical cables and miniature cables.

**Giga** — One billion.

**Gigahertz (GHz)** — A unit of frequency equal to one billion Hz.

**GND** — Ground.

**Gopher** — Gopher Resistant Copper Alloy. Provides shield and added protection in a single layer.

**GOPIC** — Gopher.

**Graded-Index** — A type of optical fiber in which the refractive index of the core is in the form of a parabolic curve, decreasing toward the cladding. This type of fiber provides high bandwidth capabilities.

**Ground** — An electrical connection between a circuit and the earth. Also refers to a conductor connected to earth. In some instances, can refer to a central metallic point designated as having zero potential.

**Ground Conductor** — A conductor in a transmission cable or line that is grounded.

**Ground Loop** — A completed circuit between shielded pairs of a multiple pair created by random contact between shields. An undesirable circuit condition in which interference is created by ground currents when grounds are connected at more than one point.

**Ground Potential** — The potential of the earth. A circuit, terminal, or chassis is said to be at ground potential when it is used as a reference point for other potentials in the system.

**H** — Symbolic designation for magnetic field intensity. Abbreviation for henrys (unit of inductance).

**Halar®** — An Ausimont Corporation trademark for thermoplastic fluoropolymer material with excellent chemical resistance, electrical properties, thermal characteristics and impact resistance.

**Haloarrest® I** — Haloarrest I is a non-halogenated flame retarded thermoplastic polyolefin with excellent low smoke and flame properties. It is used as a jacket over the XLPE insulated singles (non-XHHW), and the entire construction meets the UL 13 and 1277 specifications as a non-halogenated PLTC/TC cable. Haloarrest I meets the European Specifications on acid gas evolution and % Halogen content. This jacket can also be used with XHHW conductors for wet ratings.

**Harness** — A flat cable or group of cables, usually with many breakouts with the wire ends prepared for termination or terminated to connectors and ready to install.

**HDSL** — High bit-rate Digital Subscriber Line.

**Headroom** — The amount by which a cable ACR exceeds the specified requirements. The TIA/EIA-568B standard specifies a minimum of 10 dB of ACR for Category 5e certification at 100 MHz.

**Henry** — Unit of inductance (H) that will produce a voltage drop of one volt when the current changes at the rate of one ampere per second.

**Hertz (Hz)** — Unit of frequency equal to one cycle per second.

**Heterogeneous Insulation** — A cable insulating system composed of two or more layers of different insulating materials.

**HF** — High Frequency. International Telecommunications Union designation for the 3 to 30 MHz band of frequencies.

**HFC** — Hybrid Fiber/Coaxial.

**High Frequency** — The band from 3 to 30 MHz in the radio spectrum, as designated by the Federal Communications Commission.

**Homogeneous Insulation** — A complete cable insulation structure whose components cannot be identified as layers of different materials.

**Hook-Up Wire** — Single conductor wire with various types of insulation.

**Horizontal Cable** — Cable used between the workstation outlet and the telecommunications closet. Limited to 90 meters maximum per TIA/EIA-568B.1.

**HSCDS** — High-Speed Cable Data Service.

**HTML** — Hypertext Markup Language.

**HTTP** — Hypertext Transfer Protocol.

**Hum** — Term used to describe noise in a audio, video or other system that comes from 60 Hz power or its harmonic(s). So named for the low-frequency humming sound produced in audio systems. Usually hum is the result of undesired coupling from a 60 Hz source or of inadequate filtering of the DC output of an AC input power supply.

**Hypalon®** — A DuPont trade name for a synthetic rubber (chlorosulfonated polyethylene) used as insulating and jacketing material for wire and cable.

**I** — Symbol used to designate current.

**I/O Interconnection** — Input/Output interface to the outside world.

**I²R** — Formula for power in watts, where I = current in amperes, R = resistance in ohms.

**ICEA** — Insulated Cable Engineers Association.

**IDC** — Insulation Displacement Connector. Type of connector where contact is made to the cable conductor(s) by cutting through the individual conductor's insulation. The conductor does not need to have its insulation removed prior to connection. Flat cable often uses IDCs to simultaneously connect all conductors.

**ISDL** — ISDN Digital Subscriber Line.

**IEEE** — Institute of Electrical and Electronic Engineers.

**IETF** — Internet Engineering Task Force.

**IF** — Intermediate Frequency.

**IFB** — Interrupted Feedback (Foldback). A monitoring scheme often used in television where the feed of program audio to an on-air person can be interrupted with directions, cues or other information. Usually integrated into the intercom system.

**IGMP** — Internet Group Management Protocol.

**Impedance** — The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency.

**Impedance Match** — A condition whereby the impedance of a particular circuit, cable or component is the same as the impedance of the circuit, cable or device to which it is connected.



# Glossary of Terms

**Impedance Matching Stub** — A section of transmission line or pair of conductors cut to match the impedance of a load. Also called matching stub.

**Impedance Matching Transformer** — A transformer designed to match the impedance of one circuit to that of another.

**Impedance, Characteristic** — In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals.

**Impedance, High** — Generally, the area of 25,000 ohms or higher.

**Impedance, Low** — Generally, the area of 1 through 600 ohms.

**Index Edge** — Reference Edge.

**Inductance** — The property of wire which stores electrical current in a magnetic field around the wire. By coiling wire, the effect can be intensified. It is measured in Henrys.

**Induction** — The phenomenon of a voltage, magnetic field or electrostatic charge being produced in an object from the source of such fields.

**Induction Heating** — Heating a conducting material by placing it in a rapidly changing magnetic field. The changing field induces electric currents in the material and losses account for the resultant heat.

**Inductive Crosstalk** — Crosstalk resulting from the coupling of the electromagnetic field of one conductor upon another.

**Injection Laser Diode** — Sometimes called the semiconductor diode. A laser in which the lasing occurs at the junction of N-type and P-type semiconductor materials.

**INMS** — Integrated Network Management System.

**Input** — A signal (or power) which is applied to a piece of electric apparatus or the terminals on the apparatus to which a signal or power is applied.

**Insertion Loss** — A measure of the attenuation of a cable and/or component(s) by determining the output of a system before and after the device is inserted into the system.

**Insulation** — A material having good dielectric properties which is used to separate close electrical components, such as cable conductors and circuit components.

**Insulation Displacement Connector (IDC)** — A mass termination connector for flat cable with contacts that displace the conductor insulation to complete termination.

**Insulation Stress** — The molecule separation pressure caused by a potential difference across an insulator. The practical stress on insulation is expressed in volts per mil.

**Interface** — The region where two systems or a major and a minor system meet and interact with each other.

**Interference** — Disturbances of an electrical or electromagnetic nature that introduce undesirable responses into other electronic equipment.

**Intermediate Frequency** — A frequency to which a signal is converted for ease of handling. Receives its name from the fact that it is an intermediate step between the initial and final conversion or detection stages.

**Ionization** — The formation of ions. Ions are produced when polar compounds are dissolved in a solvent and when a liquid, gas, or solid is caused to lose or gain electrons due to the passage of an electric current.

**Ionization Voltage** — The potential at which a material ionizes. The potential at which an atom gives up an electron.

**IP** — Internet Protocol.

**IPCDN** — IP Over Cable Data Network working group of the IETF.

**IR** — Insulation Resistance.

**IR Drop** — The designation of a voltage drop in terms of current and resistance. (See also *Voltage Drop*.)

**IRC** — Inter Relay Chat.

**IRS** — Ignition Radiation Suppression.

**Integrated Services Digital Network** — An alternative to telephone modems that allows digital transmission over ordinary telephone copper wire and other media. Home and business users can get highly graphic Web pages more quickly through ISDN adapters than through dial-up connections.

**ISO** — International Standards Organization.

**Isolation** — The ability of a circuit or component to reject interference, usually expressed in dB.

**ISP** — Internet Service Provider.

**ITFS** — Instructional Television Fixed Service.

**ITU** — International Telecommunications Union.

**Jacket** — Pertaining to wire and cable, the outer protective covering that may also provide additional insulation.

**Jumper** — A short length of conductor or flat cable used to make a connection between terminals or around a break in a circuit or between circuit boards.

**kB** — Kilobyte.

**keV** — 1000 electron volts.

**Kilo** — One thousand.

**KPSI** — Tensile strength in thousands of pounds per square inch.

**kV** — Kilovolt (1000 volts).

**kVA** — Kilo Volt-ampere. One thousand volt-amperes (VA). (See also *VA*.)

**kW** — Kilowatt.

**L** — Symbol for inductance.

**Laminated Cable** — Insulated or uninsulated wires which are encapsulated by two sheets of laminate material to maintain a predetermined pitch.

**LAN** — Local Area Network. A data network connecting any number of users, intended to serve a small area. A group of computers and associated devices that shares a common communications line and typically shares the resources of a single processor or server within a small geographic area.

**Laser** — A coherent source of light with a narrow beam and a narrow spectral bandwidth (about 2nm).

**Lay** — The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable. In a twisted pair cable, the lay length is the distance it takes for the two wires to completely twist around each other.

**Lay Direction** — The direction of the progressing spiral twist in a cable while looking along the axis of the cable away from the observer. The lay direction can be either left or right.

**Lead Dress** — The placement or routing of wiring and component leads in an electrical circuit.

**Lead-in** — The cable that provides the path for RF energy between the antenna and the receiver or transmitter.

**Leakage** — The undesirable passage of current over the surface of or through an insulator.

**LEC** — Local Exchange Carrier.

**Level** — A measure of the difference between a quantity or value and an established reference.

**LF** — Low frequency.

**Light Emitting Diode (LED Source)** — A semiconductor device that emits incoherent light formed by the P-N junction. Light intensity is roughly proportional to electrical current flow.

**Limpness** — The ability of a cable to lay flat or conform to a surface as with microphone cables. The ability of a cable to bend in a short radius.

**Line Drop** — A voltage loss occurring between any two points in a power or transmission line. Such loss or drop is due to the resistance, reactance or leakage of the line. (See also *Voltage Drop* and *IR Drop*.)

**Line Equalizer** — A reactance (inductance and/or capacitance) connected in series with a transmission line to alter the frequency-response characteristics of the line.

**Line Level** — Refers to the output voltage level of a piece of electronic equipment. Usually expressed in decibels (e.g. 0 dBV).

**Line Voltage** — The value of the potential existing on a supply or power line.

**LMDS** — Local Multipoint Distribution Service

**Load** — A device that consumes power from a source and uses that power to perform a function.



# Glossary of Terms

**Loaded Line** — A transmission line that has lumped elements (inductance or capacitance) added at uniformly spaced intervals. Loading is used to provide a given set of characteristics to a transmission line.

**Loading** — A transmission line that has lumped elements (inductance or capacitance) added at uniformly spaced intervals. Loading is used to provide a given set of characteristics to a transmission line.

**Local Area Network** — A data network connecting any number of users, intended to serve a small area. (See also *LAN*.)

**Long-wire Antenna** — An antenna conductor length in excess of one-half of a wavelength.

**Loss** — Energy or signal lost without accomplishing useful work.

**Lossy** — Having high losses resulting in efficiency.

**Low Frequency** — International Telecommunications Union designation for the 3 to 30 MHz band of frequencies.

**Luminance Signal** — The portion of the composite video signal that represents the brightness or the black and white information.

**m** — Prefix for milli or one-thousandth.

**M** — Mutual inductance. The abbreviation for mega or 1 million. And also indicates 1000 (one thousand) feet in the wire industry. Lower case m is for milli or one-thousandth. (See also *m*.)

**M'** — Notation representing 1000 feet.

**mA** — milliamper (one-thousandth of an ampere).

**MAC** — Media Access Control (layer of OSI Reference Model).

**MAN** — Metropolitan Area Network.

**Manufacturing Automation Protocol** — A manufacturing automation protocol based on IEEE 802.4 standards.

**MAP** — Manufacturing Automation Protocol.

**Margin** — Distance between reference edge of cable and nearest edge of first conductor or center of first conductor.

**Mass-Termination** — The process of simultaneously terminating all conductors in a single operation.

**Matte Finish PVC** — A special formulation of PVC which very closely looks and feels like rubber.

**MATV** — Abbreviation for Master Antenna Television.

**MB** — Megabyte.

**Mbps** — Mega bits per second. The number of bits, in millions, transmitted per second.

**MCNS** — Multimedia Cable Network System Partners Ltd.

**MDS** — Multipoint Distribution System.

**Mega** — Prefix meaning million.

**Megahertz (MHz)** — Unit of frequency equal to one million Hertz.

**Metropolitan Area Network (MAN)** — A data network intended to serve the area of a city or an area of similar size.

**mfd** — Microfarad (one-millionth of a farad). Modern abbreviation is  $\mu\text{F}$  (lower case Greek *mu* followed by F).

**Mho** — The unit of conductance equal to the reciprocal of the unit of resistance (ohm).

**MHz** — Megahertz. (See also *Megahertz*.)

**Micro** — Prefix meaning one-millionth.

**Microfarad** — One-millionth of a farad ( $\mu\text{f}$ ,  $\mu\text{fd}$ , mf and mfd are common abbreviations).

**Micromicrofarad** — One-millionth of a microfarad ( $\mu\mu\text{f}$ ,  $\mu\mu\text{fd}$ , mmf, mmfd are common abbreviations). Modern usage is picofarad (pF).

**Micron** — Millionth of a meter. ( $\mu$  is a common abbreviation).

**Microphonics** — Noise caused by mechanical excitation of a system component. In a single-conductor microphone cable, for example, microphonics can be caused by the shield rubbing against the dielectric as the cable is flexed.

**Mil** — A unit of length equal to one thousandth of an inch (.001).

**Milli** — Prefix meaning one-thousandth.

**Mode** — A single electromagnetic wave traveling in an optical fiber.

**Modem** — Modulator-Demodulator. Device that converts signals in one form to another form compatible with another kind of equipment.

**Modulation** — Altering the characteristics of a carrier wave to convey information. Modulation techniques include amplitude frequency, phase, plus many other forms of on-off digital coding.

**Molded Cable** — Cable assemblies with molded connectors on one or both ends.

**Mono Filament** — A single strand filament as opposed to a braided or twisted filament.

**MSO** — Multiple System Operator. Cable TV term referring to companies that operate multiple cable TV systems in numerous cities.

**MTP** — Simple Mail Transfer Protocol.

**Multi-Conductor Cable** — Cable with more than one conductor.

**Multiplex** — A technique for putting two or more signals into a single channel.

**Mutual Capacitance** — Effective capacitance between two conductors when the effects of the other conductors and shield, if present, are removed.

**mV** — Millivolt (one-thousandth of a volt).

**mW** — Milliwatt (one-thousandth of a watt).

**Mylar®** — DuPont trademark for polyethylene terephthalate (polyester) film.

**N** — Type of coaxial connector named after its inventor, Paul Neil of Bell Labs. Also the symbol for Newton.

**Nano** — One-billionth.

**Nanometer (nm)** — One billionth of a meter.

**Nanosecond** — One billionth of a second.

**NAP** — Network Access Point.

**National Electrical Code (NEC)** — A publication of the National Fire Protection Association (NFPA) which outlines requirements for electrical wiring and building construction.

**NBR** — Butadiene-acrylonitrile copolymer rubber, a material with good oil and chemical resistance.

**NEC** — National Electrical Code.

**NEMA** — National Electrical Manufacturers Association.

**Neoprene** — A synthetic rubber with good resistance to oil, chemical, and flame. Also called polychloroprene.

**Network** — A method of data communications between computers.

**NEXT** — Near-end Crosstalk. Crosstalk induced on the pairs, measured at the end near the transmitter. Usually expressed in decibels (dB).

**NFPA** — National Fire Protection Association.

**Nibble** — One half byte (4 bits).

**NOC** — Network Operations Center.

**Noise** — In a cable or circuit, any extraneous signal which tends to interfere with the signal normally present in or passing through the system.

**NOMEX®** — DuPont trademark for a temperature-resistant, flame-retardant nylon.

**Non-Paired Cable** — Cable with two or more cabled conductors that are not in a paired configuration.

**Non-Plenum** — A description for a cable that does not meet the requirements of UL 910 CMP flame test. Such a cable cannot be installed in an area that is used for air return (plenum).

**Notch** — The removal of the web section between conductors of a flat cable to aid in stripping, slitting and termination.

**NTSC** — National Television System Committee. Organization that formulated standards for the current U.S. color television system. This system is used in most countries of the Americas and in other parts of the world. It was designed to be compatible with the existing monochrome TV sets, so that they would not become obsolete. Color televisions would also be able to receive monochrome transmissions. NTSC uses a 3.579545 MHz subcarrier whose phase varies with the instantaneous hue of the televised color and whose amplitude varies with the instantaneous saturation of the color. NTSC employs 525 lines per frame, 29.97 frames per second and 59.94 fields per second.

**Numerical Aperture (NA)** — A measure of the angular acceptance for a fiber. It is approximately the sine of the half-angle of the acceptance cone.



# Glossary of Terms

**Nylon** — An abrasion-resistant thermoplastic with good chemical resistance.

**OFDM** — Orthogonal Frequency Division Multiplexing.

**OFHC** — Abbreviation for oxygen-free, high conductivity copper. It has 99.95% minimum copper content and an average annealed conductivity of 101% compared to standard copper.

**Ohm** — The unit of electrical resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

**Ohm's Law** — Stated  $E=IR$ ,  $I=E/R$  or  $R=E/I$ . The current  $I$  in a circuit is directly proportional to the voltage  $E$ , and inversely proportional to the resistance  $R$ .

**Optical Waveguide Fiber** — A transparent filament of high refractive index core and low refractive index cladding that transmits light.

**OSI** — Open System Interconnect (Model for networking protocols).

**OSS** — Operations Support Systems.

**Output** — The useful power or signal delivered by a circuit or device.

**Ozone** — Extremely reactive form of oxygen, normally occurring around electrical discharges and present in the atmosphere in small but active quantities. In sufficient concentrations it can break down certain rubber insulations under tension (such as a bent cable).

**Paired Cable** — Cable with conductors cabled in groups of two.

**PAL** — Phase Alternation Line. PAL is a European color TV system featuring 625 lines per frame, 25 frames and 50 fields per second. Used mainly in Europe, China, Malaysia, Australia, New Zealand, the Middle East, and parts of Africa. PAL-M is a Brazilian color TV system with 525 lines per frame, 30 frames and 60 fields per second.

**Parallel Circuit** — A circuit in which the identical voltage is presented to all components, with current dividing among the components according to the resistances or the impedances of the components.

**Parallel Digital** — Digital information that is transmitted in parallel form. The digits are sent on separate conductors rather than sequentially on one transmission line (serial). Often used informally to refer to parallel digital television signals.

**PASP** — Polyethylene Aluminum Steel Polyethylene. Provides additional lightning and gopher protection.

**Patchcord** — A flexible piece of cable terminated at both ends with plugs. Used for interconnecting circuits on a patchboard, in a wiring closet or at the work area.

**PC** — Personal Computer.

**PE** — Polyethylene.

**Peak** — The maximum instantaneous value of a varying current or voltage.

**Peel Strength** — The force necessary to separate two adjacent conductors of a bonded or laminated flat cable.

**Periodicity** — The uniformly spaced cable impedance variations that result in addition of the reflections of a signal. The distance between them is the half wavelength of the most affected frequency. Multiples of that frequency are also affected. Even very slight variations, which appear over and over in a construction or installation, can have major effects on signal integrity because of periodicity.

**Permanent Link** — The horizontal cable including the workstation outlet and patch panel in the telecommunications closet plus two meters of cable at each end for testing. Limited to a maximum of 90 meters in TIA/EIA-568B.1.

**PFA** — Perfluoroalkoxy.

**Phase** — An angular relationship between waves.

**Phase Shift** — A change in the phase relationship between two alternating quantities.

**Photodetector (Receiver)** — Converts light energy to electrical energy. The silicon photo diode is most commonly used for relatively fast speeds and good sensitivity in the .75 micron to .95 micron wavelength region. Avalanche photodiodes (APD) combine the detection of optical signals with internal amplification of photo-current. Internal gain is realized through avalanche multiplication of carriers in the junction region. The advantage in using an APD is its higher signal-to-noise ratio, especially at high bit rates.

**PHY** — Physical (layer of OSI Reference Model). (See also *Physical Layer*.)

**Physical Layer** — The actual portion of a network that is used to physically connect computers of a network and over which the data is transmitted — the cable.

**PIC** — Plastic Insulated Conductor. Provides strong insulation.

**Pickup** — Any device which is capable of transforming a measurable quantity of intelligence (such as sound) into relative electrical signals (e.g. a microphone).

**Pico** — One-trillionth.

**Picofarad** — One trillionth of a farad. A micromicrofarad. Abbreviated pF in modern usage or mmF in earlier usage.

**Pin-diode** — A photodetector used to convert optical signals to electrical signals in a receiver. (See also *Photodetector*.)

**Pitch** — Nominal distance from center-to-center of adjacent conductors within a cable. When conductors are flat, pitch is usually measured from the reference edge of a conductor to the reference edge of the adjacent conductor. Spacing.

**Planar Cable** — Also referred to as flat and/or ribbon cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

**Plastic** — High polymeric substances, including both natural and synthetic products that are capable of flowing under heat and pressure, called thermoplastics. Unlike rubber and other thermoset compounds, plastics can be remelted and reused.

**Plasticizer** — A chemical added to plastics to make them softer and more flexible.

**Plenum** — A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system. A description for a cable that passes the UL 910 CMP flame test requirements.

**Plug** — A male housing with male or female contacts.

**Point-to-Point Wiring** — Wiring that consists of continuous conductors terminated at each end to circuit destination.

**Polarization** — The orientation of a flat cable or a rectangular connector (e.g. for gray flat cable), the colored edge indicating the number one conductor.

**Polybutadiene** — A type of synthetic rubber often blended with other synthetic rubbers to improve their properties.

**Polyethylene (PE)** — A thermoplastic material having excellent electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density — low density being the most flexible and the high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent.

**Polymer** — A substance made of many repeating chemical units or molecules. The term polymer is often used in place of plastic, rubber or elastomer.

**Polyolefin** — Any of the polymers and copolymers of the ethylene family of hydrocarbons, such as polyethylene and polypropylene.

**Polypropylene (PP)** — A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature). This material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. The dielectric constant is 2.25 for solid and 1.55 for cellular designs.

**Polyurethane (PUR)** — Broad class of polymers noted for good abrasion and solvent resistance. Can be in solid or cellular form. This thermoplastic material is used primarily as a cable jacket material. It has excellent oxidation, oil, and ozone resistance. Some formulations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding memory properties, making it an ideal jacket material for retractile cords.

**Polyvinyl Chloride (PVC)** — A general purpose thermoplastic used for wire and cable insulation and jackets.

**Portable Cordage** — Cable with two or more twisted conductors for flexible applications. Also called flexible cord.



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# Glossary of Terms

**POTS** — Plain Old Telephone Service. Sometimes used in discussions of new telephone technologies in which the question of whether and how existing voice transmission for ordinary telephone communication can be accommodated. For example, DSL and ISDN provide part of their channels for POTS, while using most of their bandwidth for digital data transmission.

**Potting** — Sealing by filling with a substance to exclude moisture.

**Power** — The amount of work per unit of time. Usually expressed in watts. Power equals the product of voltage and current ( $P = V \times I$ ).

**Power Loss** — The difference between the total power delivered to a circuit, cable or device and the power delivered by that device to a load.

**Power Ratio** — The ratio of power appearing at the load to the input power.

**PP** — Polypropylene.

**PPP** — Point-to-Point Protocol.

**Precision Video** — Video coaxial cables having very tight electrical tolerances in impedance, velocity of propagation, attenuation and return loss. Used in high quality applications such as live broadcast in network studios and pre- or post-production facilities.

**Premise Cabling** — Refers to the entire cabling system used for voice, data, video and power on a user's premise. For Local Area Networks, the cabling of choice includes unshielded twisted pairs (UTP), fiber optic and coaxial cables. Of these, the UTP market is the largest, with greatest demand for cables with four pairs that meet certain standards of performance, such as Category 5 and Category 5e.

**PRI** — Primary Rate Interface ISDN.

**Propagation Delay** — Time required for a signal to pass from the input to the output of a device.

**Pseudo Random NRZ** — A wave form of binary signals that may be used in a computer system. It is called NRZ, Non-Return to Zero, because the voltage does not return to zero after each bit.

**PSTN** — Public Switched Telephone Network.

**Pulse** — A current or voltage which changes abruptly from one value to another and back to the original value in a finite length of time. Used to describe one particular variation in a series of wave motions.

**Put-up** — Packaging of finished wire or cable.

**PVC** — Polyvinyl Chloride. (See also *Polyvinyl Chloride*.)

**PVDF** — Polyvinylidene Fluoride.

**QAM** — Quadrature Amplitude Modulation.

**QOS** — Quality of Service.

**QPSK** — Quaternary Phase Shift Keying or Quadrature PSK.

Hypalon is a DuPont trademark.

**Quad** — A four conductor cable. Also called star quad.

**R** — Symbol for resistance.

**Radio Frequency (RF)** — Radio Frequency. Includes frequencies from a few kilohertz to several gigahertz. Used to transmit information from point to point over the airwaves or cable.

**RAM** — Random Access Memory.

**Rated Temperature** — The maximum temperature at which an electric component can operate for extended periods without loss of its basic properties.

**Rated Voltage** — The maximum voltage at which an electric component can operate for extended periods without undue degradation or safety hazard.

**RDC** — Regional Data Center.

**Reactance** — A measure of the combined effects of capacitance and inductance on an alternating current. The amount of such opposition varies with the frequency of the current. The reactance of a capacitor decreases with an increase in frequency; the opposite occurs with an inductance.

**Receiver** — A unit that converts an RF signal to another type of signal (e.g. radio, television). Also refers to an electronic package that converts light energy to electrical energy in a fiber optic system. (See also *Photodetector*.)

**Receptacle** — A female housing with male or female contacts.

**Reference Edge** — Edge of cable or conductor from which measurements are made, such as in flat cable. Sometimes indicated by a thread, identification stripe or printing. Conductors are usually identified by their sequential position from the reference edge, with number one conductor closest to this edge.

**Reflection** — The change in direction (or return) of waves striking a surface. For example, electromagnetic energy reflections can occur at an impedance mismatch or variation in a transmission line, causing standing waves.

**Reflection Loss** — The part of a signal which is lost due to reflection of power at a line discontinuity.

**Refractive Index** — The ratio of light velocity in a vacuum to its velocity in the transmitting medium.

**Registration** — Alignment of one object with relation to another. In flat cables it involves aligning conductors with contacts or solder pads. Also called register.

**Repeater** — A receiver and transmitter combination used to regenerate an attenuated signal.

**Resistance** — In DC circuits, the opposition a material offers to current flow, measured in ohms. In AC circuits, resistance is the real component of impedance, and may be higher than the value measured at DC.

**Resonance** — An AC circuit condition in which inductive and capacitive reactances interact to cause a minimum or maximum circuit impedance.

**Retractile Cord** — A cord having specially treated insulation or jacket so that it will retract like a spring. Retractability may be added to all or part of a cord's length.

**Return Loss** — Measure of signal reflections from a cable or device with a fixed, standard reference impedance on the measuring equipment. Expressed in decibels (dB).

**RF** — Radio Frequency.

**RFI** — Radio Frequency Interference.

**RFP** — Request for Proposals.

**RG/U** — RG is the abbreviation for radio guide, a military designation for a coaxial cable, and U stands for universal.

**RGB** — Abbreviation for the three parts of color video signal: red, green and blue. Also refers to multi-coaxial cables carrying these signals.

**Ribbon Cable** — A flat cable made with parallel round conductors in the same plane. Also referred to as planar and/or flat cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

**Ringing Out** — The process of locating or identifying specific conductor paths by means of passing a current through selected conductors.

**RJ-45** — Modular telecommunications connector.

**RL** — Return Loss.

**RMS** — Root-mean-square.

**Rope Strand** — A conductor composed of groups of twisted strands.

**Round Conductor Flat Cable (RCFC)** — A cable made with parallel round conductors in the same plane.

**Routing** — The path followed by a cable or conductor.

**RSVP** — Resource Reservation Protocol.

**RTP** — Real-Time Transport Protocol.

**Rubber (Wire Insulation)** — A general term used to describe wire insulations made of thermosetting elastomers, such as natural or synthetic rubbers, neoprene, Hypalon® butyl rubber and others.

**RUS 1755.900 (aka PE90)** — A specification for fiber optic cables currently in high demand by the telecommunications industry. Only a handful of U.S. manufacturers can produce fiber optic cables to this specification. Belden is one of them.

**S-CDMA** — Synchronous Code Division Multiple Access.

**S-HDSL** — Single-pair High bit-rate Digital Subscriber Line.

**SAE** — Society of Automotive Engineers.

**SBR** — A copolymer of styrene and butadiene. Also GR-S or Buna-S. Most commonly used type of synthetic rubber.

**ScTP** — Screened Twisted Pair. Premise network cable with an overall foil shield.

**SDI** — Serial Digital Interface.

**SDSL** — Symmetric Digital Subscriber Line.

**SEALPIC** — Aluminum Shield. Sealed Aluminum.





## Glossary of Terms

**Self-extinguishing** — The characteristic of a material that extinguishes its own flame after the igniting flame is removed.

**Self-Support** — Undulated core with aluminum, polyethylene and a support strand. For aerial use.

**Semiconductor** — In wire industry terminology, a material possessing electrical conductivity that falls somewhere between that of conductors and insulators. Usually made by adding carbon particles to an insulator. Not the same as semiconductor materials such as silicon, germanium, etc. Used for making transistors and diodes.

**Semi-Solid Dielectric** — A coaxial design in which a monofilament of plastic holds the center conductor in place in a hollow plastic tube allowing the remainder of the dielectric to be air. Typical velocities of up to 84% can be achieved in this design.

**Separator** — Pertaining to wire and cable, a layer of insulating material such as textile, paper, Mylar®, etc., which is placed between a conductor and its dielectric, between a cable jacket and the components it covers, or between various components of a multiple-conductor cable. It can be utilized to improve stripping qualities, flexibility or can offer additional mechanical or electrical protection to the components it separates.

**Serial Digital** — Digital information that is transmitted in serial form. SDI informally refers to serial digital television signals that conform to the SMPTE 259M standard.

**Serial Digital Interface** — Informally refers to serial digital television signals that conform to the SMPTE 259M standard.

**Series Circuit** — A circuit in which the components are arranged end to end to form a single path for current.

**Serve Shield** — A metallic shield consisting of several strands of wire, helically wound and laid parallel around a cable core in only one direction, as opposed to the two directions with interleaving of a braid shield.

**Sheath** — Pertaining to wire and cable, the outer protective covering, also called jacket, that may also provide additional insulation.

**Shield** — A tape, serve or braid (usually copper, aluminum or other conductive material) placed around or between electric circuits or cables or their components, to prevent signal leakage or interference.

**Shield Coverage** — The optical percentage of a cable actually covered by shielding material.

**Shield Effectiveness** — The relative ability of a shield to screen out undesirable interference or prevent signal leakage out of the cable. Frequently confused with the term shield coverage.

**Shield Percentage** — The percentage of physical area of a circuit or cable actually covered by shielding material.

**Shielded Armored** — Types of Shield: Aluminum, Aluminum/Steel and Copper. Cables that require some sort of shield.

**Signal** — Any visible or audible indication which can convey information. Also, the information conveyed through a communication system.

**Signal Conductor** — A conductor in a transmission cable or line that carries electrical signals.

**Signal to Noise Ratio** — Ratio of desired signal to undesired signal (noise) that is often expressed in decibels. Commonly used interchangeably with Attenuation Crosstalk Ratio (ACR) — the difference between attenuation and crosstalk, measured in decibels (dB), at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals imposed on that same pair by crosstalk from other pairs.

**Silicone** — A material made from silicon and oxygen. Can be in thermosetting elastomer or liquid form. The thermosetting elastomer form is noted for high heat resistance. This is a very soft thermoset insulation. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

**Single-mode Fiber** — An optical fiber wave guide in which only one mode will propagate. The fiber has a very small core diameter of approximately 8 micro meters. It permits signal transmission at extremely high bandwidths and is generally used with laser diodes.

**Single-ended** — Unbalanced, such as grounding one side of a circuit or transmission line.

**Sinusoidal** — Varying in proportion to the sine of an angle or time function. Ordinary alternating current is sinusoidal.

**Skew Rays** — A ray that does not intersect the fiber axis. Generally, a light ray that enters the fiber core at a very high angle.

**Skin Effect** — The tendency of alternating current to travel only on the surface of a conductor as its frequency increases.

**SMA** — Subminiature A connector commonly used in VHF, UHF, RF and microwave applications.

**SMB** — Subminiature B connector snap-mount connector.

**SMC** — Subminiature C connector.

**Snake Cable** — A name given to individually shielded or individually shielded and jacketed, multi-pair audio cables. Used in the connection of multi-channel line level audio equipment.

**SNMP** — Simple Network Management Protocol.

**SNR** — Signal to Noise Ratio.

**SONET** — Synchronous Optical Network.

**Source** — The device from which a signal is marked into a cable. The device (usually LED or laser) used to convert an electrical information-carrying signal into a corresponding optical signal for transmission by an optical wave guide.

**Spacing** — The distance between the centers of two adjacent conductors. Pitch.

**Span** — The distance between the center of the first conductor and the center of the last conductor in a flat cable.

**Spectral Bandwidth** — The difference between wavelengths at which the radiant intensity of illumination is half its peak intensity.

**Spectrum** — Frequencies that exist in a continuous range and have a common characteristic. A spectrum may be inclusive of many spectrums (e.g. the electromagnetic radiation spectrum includes the light spectrum, radio spectrum, infrared spectrum, etc.).

**Speed of Light (c)** — Approximately  $2.998 \times 10^8$  meters per second.

**Splitter** — A device that sends the signal from one source to two or more receiving devices by allocating a portion of the signal to each receiver (e.g. cable TV splitter). A device that divides a high bandwidth signal into two or more lower bandwidth signals, each carrying a selected frequency range. Users connected to a DSL line, for example, may have a splitter installed at their home or business to divide the incoming signal into low frequencies to send to their phone and high frequencies for data to the computer.

**SRL** — Structural Return Loss.

**Stalpath (DUCTPIC)** — Aluminum steel bonded to the polyethylene jacket. Helps minimize jacket damage.

**Standing Wave** — The stationary pattern of waves produced by two waves of the same frequency traveling in opposite directions on the same transmission line. The existence of voltage and current maxima and minima along a transmission line is a result of reflected energy from an impedance mismatch.

**Standing Wave Ratio (SWR)** — A ratio of the maximum amplitude to the minimum amplitude of a standing wave stated in current or voltage amplitudes. (See also *Standing Wave*.)

**Star Quad** — Term given to 4-conductor microphone cables where the conductors are spiraled together, which, when connected in an x configuration, greatly increases common mode noise rejection.

**Static Charge** — An electrical charge that is bound to an object. An unmoving electrical charge.

**Stay Cord** — A component of a cable, usually of high tensile strength, used to anchor the cable ends at their points of termination and keep any pull on the cable from being transferred to the electrical conductors.

**Step Insulated** — Process of applying insulation in two layers. Typically used in shielded networking cables such that the outer layer of insulation can be removed and remaining conductor and insulation can be terminated in a RJ-45 type connector.

**Step-index Fiber** — An optical fiber in which the core is of a uniform refractive index with a sharp decrease in the index of refraction at the core/cladding interface.



# Glossary of Terms

**STP** — Shielded Twisted Pair(s).

**Strain Gage** — A device for determining the amount of strain (change in dimensions) when a stress is applied.

**Strand** — A single uninsulated wire.

**Stranded Conductor** — A conductor composed of several strands or groups of uninsulated wires.

**Strip** — To remove insulation from a cable or wire.

**Stripping Groove** — The controlled thinning of the lamination between two conductors in a flat cable to allow easy hand separation. Tear feature.

**Structural Return Loss** — Magnitude of the internal cable reflections, measured in decibels (dB), relative to the actual cable impedance, not the system impedance. Measure of signal reflections caused by the structure of the cable without the additional reflections from any impedance mismatch between the cable and the measuring equipment. Measure of internal cable reflections using a reference impedance in the measuring equipment that is adjusted to the nominal or average impedance of the cable. (See also *Return Loss*.)

**Surge** — A temporary and relatively large increase in the voltage or current in an electric circuit or cable. Also called transient.

**SVHS** — Abbreviation for Super VHS. A video format in which the two parts of the video signal, the chrominance and luminance, are recorded and played back separately providing for better picture quality.

**Sweep Test** — Testing a characteristic of a cable or device across a range of frequencies. In cable, it usually implies return loss or structural return loss. (See also *Return Loss* or *Structural Return Loss*.)

**TCP/IP** — Transmission Control Protocol/Internet Protocol.

**TDMA** — Time Division Multiple Access.

**Tear Feature** — The controlled thinning of the lamination between two conductors in a flat cable to allow easy hand separation.

**Teflon®** — DuPont Company trademark for fluorocarbon resins.

**Tefzel®** — DuPont Company trademark for a ETFE. Fluorocopolymer thermoplastic material which has excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance and flame resistance.

**Temperature Rating** — The maximum temperature at which the insulating material or cable may be used in continuous operation without change in its basic properties.

**Tensile Strength** — The pull stress required to break a bare wire.

**TFE** — Tetrafluoroethylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.

**Thermal Rating** — The temperature range in which a material will perform its function without undue degradation.

**Thermoplastic** — A material which will soften, flow or distort appreciably when subjected to sufficient heat and pressure. Examples are polyvinyl chloride and polyethylene.

**Thermoset** — A material which will not soften, flow or distort appreciably when subjected to heat and pressure. Vulcanizable. Examples are rubber and neoprene.

**TIA** — Telecommunications Industry Association. Body which authored the TIA/EIA-568-B Commercial Building Telecommunications Wiring Standard in conjunction with EIA.

**TIA/EIA-568-B** — Commercial Building Telecommunications Wiring Standard defines a generic telecommunications wiring system for commercial buildings that will support a multi-product, multi-vendor environment. It also provides direction for the design of telecommunications products for commercial enterprises.

**Tinsel** — A type of electrical conductor composed of a number of tiny threads, each thread having a fine, flat ribbon of copper or other metal closely spiraled about it. Used for small size cables requiring limpness and extra-long flex life.

**Topcoated Wire** — Conductor produced by applying a layer of tin over a stranded bare copper conductor holding the strands together allowing easier soldering and preventing the fraying of strands.

**TP-PMD** — Twisted Pair-Physical Medium Dependent.

**Transducer** — A device for converting one form of energy to another, such as mechanical energy to electrical energy.

**Transfer Impedance** — For a specified cable length, transfer impedance relates to a current on one surface of a shield to the voltage drop generated by this current on the opposite surface of the shield. Transfer impedance is used to determine shield effectiveness against both ingress and egress of interfering signals. Cable shields are normally designed to reduce the transfer of interference — hence, shields with lower transfer impedance are more effective than shields with higher transfer impedance.

**Transmission Line** — An arrangement of two or more conductors, such as a coaxial cable or a waveguide used to transfer signal energy from one location to another.

**Transmission Line Cable** — Two or more conductors placed within a dielectric material in such a way as to control the electrical characteristics.

**Transmitter** — Equipment that generates RF or electrical signals for transmission through the air or space or over a transmissions line. Also refers to the electronic package that converts electrical energy to light energy in a fiber optic system.

**Triad Cable** — Cable with three twisted conductors.

**Triaxial Cable** — A cable construction having a conductor and two isolated braid shields, all insulated from each other. A coaxial cable with a second braid applied over an inner jacket and an outer jacket applied over the outer braid. Commonly used in television camera systems.

**Trielectrical Noise** — Noise generated in a shielded cable due to variations in capacitance between the shield and conductors as the cable is flexed.

**Trunk Cable** — In a CATV system, the transmission cable from the head end (signal pickup) to the trunk amplifier. Also called a feeder cable.

**Turn-key** — A contractual arrangement in which one party designs and installs a system and turns over the keys to another party who will operate the system.

**TVRO** — TV Receive Only.

**Twin-lead** — A transmission line having two parallel conductors separated by insulating material. Line impedance is determined by the diameter and spacing of the conductors and the insulating material and is usually 300 ohms for television receiving antennas.

**Twinax Cable** — Cable with two twisted conductors with established electrical properties (one pair = two conductors sharing a common axis = twinax).

**Twisted Pair** — Two lengths of insulated conductors twisted together. The traditional method for connecting home and many business computers to the telephone company. Gets its name because two insulated copper wires are twisted together, both of which are needed for each connection. In commercial environments, performance of data transmission can be improved by adding a composite tape to the wire. This is known as shielded twisted pair.

**Two-pair Premise Wiring** — Refers to the two pairs of voice grade (low bandwidth) twisted pair wire installed in most homes since the 1950s. The extra pair makes it possible for you to add another line when you need it.

**UHF** — Ultra High Frequency. International Telecommunications Union designation for the 300 to 3000 MHz band of frequencies.

**UL** — Underwriters Laboratories. A nonprofit organization which tests and verifies construction and performance of electronic parts and equipment, including wire and cable.

**UM** — Unsoldered Mechanical Protection. Additional steel and polyethylene over inner polyethylene jacket. Provides additional mechanical protection.

**Unbalanced Line** — A transmission line in which voltages on the two conductors are unequal with respect to ground. A coaxial cable is a common type of unbalanced line.

**Unilay** — A conductor with more than one layer of helically laid wires with the direction of lay and length of lay the same for all layers.

**UTP** — Unshielded Twisted Pair(s).

# Glossary of Terms and Terms of Use of Master Catalog

**V** — Volt. (See also *Volt*.)

**VA** — Volt-ampere. Measure of apparent power in a reactive circuit found by multiplying the voltage by the current.

**VC/MTM** — Variable Constellation/ Multi-Tone Modulation.

**VDSL** — Very high bit rate Digital Subscriber Line.

**Velocity of Propagation (VP)** — The transmission speed of electrical energy in a length of cable compared to speed of light in free space. Usually expressed as a percentage.

**VHF** — Very High Frequency. International Telecommunications Union designation for the 30 to 300 MHz band of frequencies.

**VHS** — Abbreviation for Video Home System.

**Video** — Pertaining to picture information in a television system.

**VLF** — Very Low Frequency. International Telecommunications Union designation for the 3 to 30 kHz band of frequencies.

**Volt** — A unit of electromotive force.

**Voltage** — Electrical potential of electromotive force expressed in volts.

**Voltage Drop** — The voltage developed across a component or conductor by the current flow through the resistance or impedance of the component or conductor.

**Voltage Rating** — The highest voltage that may be continuously applied to a cable construction in conformance with standards or specifications.

**Voltage Standing Wave Ratio** — Ratio of maximum voltage of the standing wave to the minimum voltage of the standing wave. (See also *Standing Wave Ratio*.)

**VSWR** — Voltage Standing Wave Ratio.

**VW-1** — A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designed FR-1.

**W** — Symbol for watt or wattage.

**Wall Thickness** — The thickness of an insulation or jacket.

**WAN** — Wide Area Network.

**Watt** — A unit of electrical power.

**Wave Form** — A graphical representation of a varying quantity. Usually, time is represented on the horizontal axis, and the current or voltage value is represented on the vertical axis.

**Wavelength** — The distance between positive peaks of a signal. As the frequency increases, and waves get closer together, the wavelength decreases.

**WCS** — Wireless Communications Service.

**Wire** — A conductor, either bare or insulated.

**Wireless** — Really a misnomer. Belden makes a variety of cables needed to build the transmitting infrastructure required to support wireless devices. Wireless is a technology that allows a device (phone, pager or satellite dish) to be unconnected from the transmission point of a voice, video or data signal. The transmission infrastructure required to support such wireless devices is a wired platform of transmission towers and stations that communicate point to point and to telephone central offices.

**X** — Symbol for reactance.

**XLPE** — Crosslinked polyethylene is a thermoset and is crosslinked by radiation, thermally, or by moisture. XLPE offers a wide range of operating temperatures, excellent deformation, abrasion, and flame resistance. XLPE can be formulated with halogenated or non-halogenated flame retardant packages. Some grades are also rated XHHW-2 which offers excellent wet electrical properties.

**XLR** — A multi-pin audio connector (typically 3 pins) used in microphone, line level and snake cable audio connections.

**XPE-PVC** — Expanded Polyethylene-Polyvinyl Chloride. Fire retardant.

**Z** — Symbol for impedance.

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| 734A1P   | 6.55  | 1062A    | 15.43 | 1217B    | 12.23 | 1495A    | 15.48 | 1588A    | 11.9  | 1817R    | 12.22 | 3004A    | 15.41 | 3084F    | 15.22 | 5122FL   | 13.36 |          |      |          |      |
| 734A6    | 6.55  | 1063A    | 15.56 | 1218B    | 12.23 | 1498A    | 15.48 | 1588R    | 11.9  | 1818R    | 12.22 | 3005A    | 15.42 | 3085A    | 15.22 | 5122FN   | 13.38 |          |      |          |      |
| 734D1    | 6.55  | 1064A    | 15.56 | 1219B    | 12.23 | 1499A    | 15.48 | 1590A    | 11.10 | 1819R    | 12.22 | 3006A    | 15.41 | 3086A    | 15.23 | 5122UL   | 13.35 |          |      |          |      |
| 734D12   | 6.55  | 1065A    | 15.56 | 1220B    | 12.23 | 1500A    | 11.8  | 1592A    | 11.11 | 1820R    | 12.22 | 3007A    | 15.42 | 3087A    | 15.23 | 5200FE   | 13.12 |          |      |          |      |
| 734D1P   | 6.55  | 1066A    | 15.56 | 1221B    | 12.23 | 1500R    | 11.8  | 1594A    | 11.9  | 1821R    | 12.22 | 3008A    | 15.41 | 3088A    | 15.56 | 5200UE   | 13.43 |          |      |          |      |
| 734D1T   | 6.55  | 1067A    | 15.56 | 1222B    | 12.23 |          | 14.10 | 1613A    | 6.22  | 1822R    | 12.22 | 3009A    | 15.42 | 3089A    | 15.57 |          | 13.9  |          |      |          |      |
| 734D2    | 6.55  | 1068A    | 15.56 | 1225B    | 12.23 | 1501A    | 11.8  | 1614A    | 6.22  | 1823R    | 12.22 | 3010A    | 15.41 | 3090A    | 15.58 |          | 13.41 |          |      |          |      |
| 734D2T   | 6.55  | 1069A    | 15.58 | 1226B    | 12.23 | 1502P    | 12.39 | 1615AM   | 6.22  | 1824A    | 12.68 | 3011A    | 15.42 | 3091A    | 15.59 |          | 14.19 |          |      |          |      |
| 734D6    | 6.55  | 1070A    | 15.58 | 1227A1   | 11.13 | 1502R    | 12.39 | 1616AM   | 6.22  |          | 12.68 | 3012A    | 15.41 | 3092A    | 15.17 | 5200UP   | 13.42 |          |      |          |      |
| 735A1    | 6.54  | 1071A    | 15.58 | 1229A1   | 11.13 | 1503A    | 5.19  | 1617A    | 6.28  | 1825A    | 6.48  | 3013A    | 15.42 | 3092F    | 15.17 |          | 14.18 |          |      |          |      |
| 735A12   | 6.54  | 1072A    | 15.58 | 1232A1   | 11.13 |          | 12.11 | 1618A    | 6.28  |          | 12.68 | 3014A    | 15.41 |          | 15.18 | 5201FE   | 13.12 |          |      |          |      |
| 735A16   | 6.54  | 1073A    | 15.58 | 1243A2   | 11.13 | 1504A    | 5.19  | 1619AM   | 6.28  | 1826A    | 6.48  | 3015A    | 15.42 | 3093A    | 15.17 |          | 13.9  |          |      |          |      |
| 735A1P   | 6.54  | 1074A    | 15.58 | 1245A2   | 11.13 |          | 12.14 | 1620AM   | 6.28  |          | 12.68 | 3016A    | 15.43 | 3094A    | 6.80  |          | 13.41 |          |      |          |      |
| 735A1T   | 6.54  | 1075A    | 15.43 | 1258AM   | 6.19  | 1505A    | 6.29  | 1621A    | 6.24  | 1829A    | 6.31  | 3017A    | 15.44 |          | 11.19 | 5202FE   | 13.12 |          |      |          |      |
| 735A2    | 6.54  | 1076A    | 15.43 | 1260AM   | 6.23  |          | 6.42  | 1624P    | 11.15 | 1829AC   | 6.31  | 3018A    | 15.44 |          | 15.18 | 5202UE   | 13.9  |          |      |          |      |
| 735A24   | 6.54  | 1077A    | 15.43 | 1266A    | 5.19  |          | 12.50 | 1624R    | 11.15 |          | 14.12 | 3020A    | 15.44 | 3095A    | 6.81  |          | 14.19 |          |      |          |      |
| 735A2T   | 6.54  | 1078A    | 15.43 | 1268A    | 5.33  | 1505F    | 6.29  | 1633A    | 11.16 | 1829B    | 6.31  | 3021A    | 15.44 |          | 15.18 | 5202UP   | 13.42 |          |      |          |      |
| 735A3    | 6.54  | 1079A    | 15.43 | 1269A    | 5.33  |          | 12.11 | 1634A    | 11.20 | 1829BC   | 6.31  | 3022A    | 15.44 |          | 14.18 |          |       |          |      |          |      |
| 735A6    | 6.54  | 1080A    | 15.43 |          | 5.52  | 1506A    | 6.42  | 1668A    | 11.16 | 1830A    | 6.31  | 3023A    | 15.44 | 3102A    | 15.51 | 5205UE   | 13.9  |          |      |          |      |
| 735A8    | 6.54  | 1081A    | 15.43 | 1401A    | 11.23 |          | 12.50 | 1671A    | 6.68  | 1832AM   | 6.20  | 3024A    | 15.44 | 3103A    | 15.61 | 5220FJ   | 13.37 |          |      |          |      |
| 735A9    | 6.54  | 1082A    | 15.43 | 1403A    | 11.23 | 1508A    | 5.16  | 1671B    | 6.68  | 1837A    | 6.21  | 3025A    | 15.46 | 3104A    | 15.61 | 5220FL   | 13.36 |          |      |          |      |
| 1000A    | 15.53 | 1083A    | 15.44 | 1406B    | 6.47  |          | 12.10 | 1671J    | 6.68  | 1839A    | 6.32  | 3027A    | 15.47 | 3105A    | 15.26 | 5220FN   | 13.38 |          |      |          |      |
| 1001A    | 15.53 | 1084A    | 15.44 |          | 14.16 | 1509C    | 12.20 | 1672A    | 6.70  | 1839AC   | 6.32  | 3028A    | 15.47 | 3106A    | 15.26 | 5220UJ   | 13.37 |          |      |          |      |
| 1002A    | 15.53 | 1085A    | 15.44 | 1407B    | 6.47  |          | 12.20 |          | 12.41 | 1840A    | 6.32  | 3029A    | 15.45 | 3107A    | 15.26 | 5220UL   | 13.35 |          |      |          |      |
| 1006A    | 15.53 | 1086A    | 15.44 |          | 14.16 | 1510C    | 12.20 | 1672B    | 6.70  | 1840AC   | 6.32  | 3030A    | 15.47 | 3108A    | 15.26 | 5220UN   | 13.38 |          |      |          |      |
| 1007A    | 15.53 | 1087A    | 15.56 |          | 14.16 | 1511C    | 12.20 | 1672J    | 6.70  | 1841A    | 6.32  | 3031A    | 15.47 | 3109A    | 15.26 | 5222FJ   | 13.37 |          |      |          |      |
| 1008A    | 15.53 | 1088A    | 15.56 | 1408R    | 12.19 |          | 12.20 |          | 12.41 | 1841AC   | 6.32  | 3032A    | 15.47 | 3111A    | 15.53 | 5222FL   | 13.36 |          |      |          |      |
| 1009A    | 15.53 | 1089A    | 15.58 | 1409R    | 12.19 | 1512C    | 12.20 | 1673A    | 6.69  |          | 14.12 | 3033A    | 15.47 | 3112A    | 15.53 | 5222FN   | 13.38 |          |      |          |      |
| 1012A    | 15.53 | 1090A    | 15.58 | 1410R    | 12.19 | 1513C    | 12.20 | 1673B    | 6.69  | 1843A    | 6.33  | 3034A    | 15.46 | 3113A    | 15.53 | 5222UL   | 13.35 |          |      |          |      |
| 1013A    | 15.53 | 1091A    | 15.43 | 1411R    | 12.19 | 1514C    | 12.20 | 1673J    | 6.69  | 1850F    | 12.29 | 3035A    | 15.46 | 3115A    | 15.53 | 5222UN   | 13.38 |          |      |          |      |
| 1014A    | 15.53 | 1092A    | 15.44 | 1412R    | 12.19 | 1515C    | 12.20 | 1674A    | 6.68  | 1852F    | 12.29 | 3036A    | 15.47 | 3118A    | 15.59 | 5300F1   | 13.13 |          |      |          |      |
| 1015A    | 15.53 | 1093A    | 15.57 | 1413R    | 12.19 | 1516C    | 12.20 | 1674B    | 6.68  | 1854F    | 12.29 | 3037A    | 15.47 | 3119A    | 15.25 | 5300FE   | 13.12 |          |      |          |      |
| 1016A    | 15.53 | 1094A    | 15.57 | 1414R    | 12.19 | 1517C    | 12.20 | 1675A    | 6.69  | 1855A    | 6.40  | 3038A    | 15.47 | 3120A    | 15.25 | 5300U1   | 13.13 |          |      |          |      |
| 1017A    | 15.53 | 1095A    | 15.57 | 1415R    | 12.19 | 1518C    | 12.20 | 1675J    | 6.69  |          | 14.15 | 3039A    | 15.47 | 3125A    | 15.24 | 5300UE   | 13.9  |          |      |          |      |
| 1018A    | 15.53 | 1096A    | 15.57 | 1416R    | 12.19 | 1519C    | 12.20 | 1694A    | 6.44  | 1856A    | 6.51  | 3041A    | 15.46 | 3126A    | 15.24 | 5300UG   | 13.7  |          |      |          |      |
| 1023A    | 15.53 | 1097A    | 15.59 | 1417B    | 6.47  | 1520A    | 6.47  |          | 12.52 |          | 12.58 | 3042A    | 15.46 | 3130A    | 15.59 | 5300UP   | 13.42 |          |      |          |      |
| 1025A    | 15.53 | 1098A    | 15.59 |          | 14.16 |          | 12.67 | 1695A    | 6.44  | 1856B    | 6.51  | 3043A    | 15.48 | 3131A    | 6.80  | 5301FE   | 13.12 |          |      |          |      |
| 1030A    | 15.48 | 1099A    | 15.59 |          | 14.16 | 1521A    | 6.47  |          | 14.14 |          | 12.58 | 3044A    | 15.49 | 3132A    | 6.80  |          | 13.43 |          |      |          |      |
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| 1032A    | 15.46 | 1101A    | 15.53 |          | 12.68 | 1522A    | 6.47  | 1696A    | 12.28 | 1858A    | 6.52  | 3046A    | 15.49 |          | 11.19 |          | 13.41 |          |      |          |      |
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| 1034A    | 15.49 | 1103A    | 15.53 |          | 5.15  | 1523A    | 6.26  | 1700A    | 11.6  | 1859A    | 6.52  | 3048A    | 15.49 | 5000FE   | 13.12 |          | 13.12 |          |      |          |      |
| 1035A    | 15.48 | 1112A    | 15.53 | 1420A    | 5.15  | 1523AN   | 6.26  | 1700R    | 11.6  |          | 12.59 | 3049A    | 15.49 |          | 13.43 | 5302FE   | 13.12 |          |      |          |      |
| 1036A    | 15.47 | 1114A    | 15.54 | 1421A    | 5.15  | 1523AP   | 6.26  |          | 14.10 | 1860A    | 12.35 | 3050A    | 15.48 | 5000UE   | 13.10 |          | 13.17 |          |      |          |      |
| 1037A    | 15.58 | 1115A    | 15.54 | 1422A    | 5.15  | 1523R    | 6.26  | 1701A    | 11.6  | 1861A    | 12.35 | 3051A    | 15.48 |          | 14.19 | 5302UE   | 13.9  |          |      |          |      |
| 1038A    | 15.56 | 1116A    | 15.54 | 1423A    | 5.15  | 1524AM   | 6.26  |          | 14.10 | 1862A    | 12.34 | 3052A    | 15.49 |          | 14.19 | 5302UP   | 13.42 |          |      |          |      |
| 1039A    | 15.58 | 1117A    | 15.54 | 1424A    | 5.15  | 1525A    | 6.26  | 1701LC   | 11.6  | 1863A    | 12.34 | 3053A    | 15.49 | 5000UP   | 13.42 |          | 13.12 |          |      |          |      |
| 1040A    | 15.58 | 1118A    | 15.58 | 1425A    | 5.15  | 1526A    | 15.44 | 1702A    | 11.6  | 1864A    | 11.12 | 3054A    | 15.49 |          | 14.18 | 5303UE   | 13.9  |          |      |          |      |
| 1041A    | 15.58 | 1119A    | 15.59 | 1426A    | 6.37  | 1527A    | 15.58 | 1703A    | 11.6  | 1865A    | 6.40  | 3055A    | 15.49 | 5001UE   | 13.10 |          | 13.12 |          |      |          |      |
| 1042A    | 15.58 | 1120A    | 15.56 |          | 12.44 | 1528A    | 15.48 | 1752A    | 11.7  |          | 12.48 | 3056A    | 15.48 |          | 13.41 | 5304FE   | 13.12 |          |      |          |      |
| 1043A    | 15.58 | 1121A    | 15.57 | 1427B    | 12.23 | 1529A    | 15.46 | 1797B    | 11.24 | 1871A    | 11.12 | 3057A    | 15.48 |          | 13.42 | 5305FE   | 13.12 |          |      |          |      |
| 1044A    | 15.58 | 1151A    | 6.18  | 1428B    | 12.23 | 1530A    | 6.20  | 1800B    | 12.28 | 1872A    | 11.4  | 3064A    | 15.57 | 5002UP   | 13.42 |          | 13.12 |          |      |          |      |
| 1045A    | 15.58 | 1152A    | 6.25  | 1466A    | 15.46 | 1530AP   | 6.20  |          | 14.17 | 1874A    | 11.4  | 3066A    | 15.57 | 5020FJ   | 13.37 |          | 13.37 |          |      |          |      |
| 1046A    | 15.58 | 1153A    | 6.28  | 1467A    | 15.46 | 1531AM   | 6.20  | 1800F    | 12.5  | 1875A    | 11.4  | 3067A    | 15.44 | 5020FL   | 13.36 |          | 13.36 |          |      |          |      |
| 1047A    | 15.58 | 1164B    | 6.48  | 1468A    | 15.46 | 1532A    | 6.20  |          | 12.28 | 1875GB   | 11.4  | 3068A    | 15.47 | 5020FN   | 13.38 |          | 13.38 |          |      |          |      |
| 1048A    | 15.56 |          | 12.68 | 1471A    | 15.46 | 1533P    | 11.14 | 1801B    | 12.28 | 1883A    | 5.16  | 3069A    | 15.49 | 5100FE   | 13.12 |          | 13.43 |          |      |          |      |
| 1049A    | 15.56 | 1167B    | 6.48  | 1472A    | 15.46 | 1533R    | 11.14 | 1802B    | 12.28 |          | 12.10 | 3072F    | 15.16 |          | 13.43 | 5100UE   | 13.10 |          |      |          |      |
| 1050A    | 15.56 |          | 12.68 | 1474A    | 15.46 | 1534A    | 11.22 | 1803F    | 12.29 | 1884A    | 6.24  | 3073F    | 15.16 |          | 14.19 |          | 13.41 |          |      |          |      |
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| 1052A    | 15.56 | 1186A    | 6.17  | 1476A    | 15.46 | 1538A    | 11.22 | 1805F    | 12.29 |          | 12.10 | 3076F    | 15.19 |          | 13.43 | 5101FE   | 13.12 |          |      |          |      |
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| 5400FE   | 13.11 | 5526UL   | 13.35 |          | 13.45 | 6500UE   | 13.19 | 7113A    | 15.30 | 7427AS   | 15.35 | 7807R    | 6.58  | 8012     | 3.27  |          | 12.36 |
|          | 13.43 | 5529UE   | 13.8  | 6301UE   | 13.20 |          | 13.44 | 7115A    | 15.30 | 7428A    | 15.35 | 7808A    | 6.59  | 8013     | 3.27  | 8208     | 5.23  |
| 5400UE   | 13.8  | 5541FE   | 13.15 | 6302FC   | 13.27 | 6501FE   | 13.22 | 7116A    | 15.30 | 7428AS   | 15.35 | 8018     | 3.27  | 8019     | 3.27  | 8212     | 6.37  |
|          | 13.41 | 5542FE   | 13.15 |          | 13.46 |          | 13.45 | 7117A    | 15.30 | 7429A    | 15.35 | 8020     | 3.27  | 8021     | 3.27  |          | 12.44 |
| 5401FE   | 13.11 | 5542GE   | 13.17 | 6302FE   | 13.23 | 6501UE   | 13.19 | 7118A    | 15.30 | 7430A    | 15.35 | 8022     | 3.27  | 8023     | 3.27  | 8213     | 6.39  |
|          | 13.43 | 5543FE   | 13.15 | 6302UE   | 13.20 |          | 13.44 | 7121AS   | 15.31 | 7434A    | 15.36 |          | 12.46 | 8024     | 3.27  |          | 12.46 |
| 5401GE   | 13.17 | 5543PE   | 13.16 | 6303UE   | 13.20 | 6502FC   | 13.27 | 7122A    | 15.31 | 7435A    | 15.36 | 8025     | 3.27  | 8026     | 3.27  | 8214     | 6.65  |
| 5401UE   | 13.8  | 5543UE   | 13.14 | 6304FE   | 13.23 | 6502FE   | 13.22 | 7123AS   | 15.31 | 7436A    | 15.36 | 8029WB   | 6.60  | 8029     | 3.27  | 8215     | 6.38  |
|          | 13.41 | 5545FE   | 13.15 | 6304UE   | 13.20 | 6502GE   | 13.26 | 7125A    | 15.31 | 7436AS   | 15.36 | 809A     | 6.60  | 8030     | 3.27  |          | 12.45 |
| 5402FE   | 13.11 | 5547UE   | 13.14 | 6306FE   | 13.23 | 6502UE   | 13.19 | 7126A    | 15.31 | 7438A    | 15.36 | 809R     | 6.60  | 8031     | 3.25  | 8216     | 6.63  |
| 5402UE   | 13.17 | 5561FE   | 13.15 | 6307FE   | 13.23 | 6504FE   | 13.22 | 7127A    | 15.31 | 7438AS   | 15.36 | 809WB    | 6.60  | 8032     | 3.25  | 8218     | 6.34  |
| 5403FE   | 13.11 | 5562FE   | 13.15 | 6307UE   | 13.20 | 6504UE   | 13.19 | 7128A    | 15.31 | 7439A    | 15.36 | 810A     | 6.61  | 8033     | 3.25  |          | 12.40 |
| 5403UE   | 13.8  | 5563FE   | 13.15 | 6308UE   | 13.20 | 6506FE   | 13.22 | 7129A    | 15.31 | 7440A    | 15.36 | 810R     | 6.61  | 8034     | 3.25  | 8219     | 6.64  |
| 5405FE   | 13.11 | 5582UE   | 13.8  | 6309FE   | 13.23 | 6506UE   | 13.19 | 7129A    | 15.31 | 7442A    | 15.36 | 810WB    | 6.61  | 8035     | 3.25  | 8221     | 6.36  |
| 5405UE   | 13.8  | 5582UG   | 13.7  | 6320FE   | 13.23 | 6508FE   | 13.22 | 7130A    | 15.31 | 7444A    | 15.36 | 8110     | 6.61  | 8036     | 3.25  |          | 12.43 |
| 5406UE   | 13.8  | 5600FE   | 13.11 |          | 13.45 | 6508UE   | 13.19 | 7132A    | 15.31 | 7445A    | 15.36 | 811R     | 6.61  | 8037     | 3.25  | 8232     | 6.50  |
| 5407FE   | 13.11 |          | 13.43 | 6320FK   | 13.40 | 6509UE   | 13.19 | 7136A    | 15.31 | 7447A    | 15.37 | 812A     | 6.61  | 8038     | 3.25  |          | 12.57 |
| 5407UE   | 13.8  | 5T00UP   | 12.37 | 6320FL   | 13.39 | 6520FE   | 13.22 | 7141AS   | 15.31 | 7449A    | 15.37 | 812WB    | 6.61  | 8039     | 3.25  | 8233     | 6.53  |
| 5408UE   | 13.8  |          | 14.18 | 6320UE   | 13.20 |          | 13.45 | 7142A    | 15.31 | 7450A    | 15.37 | 813A     | 6.61  | 8040     | 3.25  |          | 12.60 |
| 5408UE   | 13.8  | 6000FE   | 13.23 |          | 13.44 | 6520UE   | 13.19 | 7145A    | 15.32 | 7450AS   | 15.37 | 813R     | 6.61  | 8041     | 3.25  | 8233A    | 6.53  |
| 5409UE   | 13.8  |          | 13.45 | 6320UL   | 13.39 | 6521FE   | 13.22 | 7147A    | 15.32 | 7453A    | 15.37 | 814A     | 6.61  | 8042     | 3.25  |          | 12.60 |
| 5421FE   | 13.43 | 6000UE   | 13.21 | 6321UE   | 13.20 |          | 13.45 | 7152A    | 15.32 | 7500A    | 15.39 | 814R     | 6.61  | 8043     | 3.25  | 8237     | 6.65  |
| 5439W5   | 13.30 |          | 13.44 |          | 13.44 | 6521UE   | 13.19 | 7158A    | 15.32 | 7501A    | 15.39 | 815A     | 6.61  | 8044     | 3.25  |          | 12.46 |
| 5441FE   | 13.15 | 6001UE   | 13.21 | 6321UL   | 13.39 |          | 13.44 | 7200A    | 15.38 | 7502A    | 15.39 | 816A     | 6.61  | 8045     | 3.25  | 8240     | 6.64  |
| 5442FE   | 13.15 |          | 13.44 | 6322FL   | 13.39 | 6522UE   | 13.19 | 7201A    | 15.38 | 7503A    | 15.39 | 817A     | 6.61  | 8046     | 3.25  | 8241     | 6.35  |
| 5445FE   | 13.15 | 6002UE   | 13.21 | 6322UL   | 13.39 | 6522UL   | 13.39 | 7202A    | 15.38 | 7504A    | 15.39 | 818A     | 6.61  | 8047     | 3.25  |          | 12.42 |
| 5500F1   | 13.13 | 6005     | 15.91 | 6322UE   | 13.20 | 6524UE   | 13.19 | 7203A    | 15.38 | 7700A    | 12.69 | 818R     | 6.61  | 8048     | 3.25  | 8241A    | 6.35  |
| 5500FE   | 13.11 | 6054     | 15.91 | 6324UL   | 13.39 | 6524UL   | 13.39 | 7205A    | 15.38 |          | 12.54 | 819A     | 6.61  | 8049     | 3.25  |          | 12.42 |
|          | 13.43 | 6059     | 15.91 | 6326UL   | 13.39 | 6539Y8   | 13.33 | 7206A    | 15.38 | 7710A    | 6.46  | 819R     | 6.61  | 8050     | 3.25  | 8241F    | 6.35  |
| 5501FE   | 13.11 | 6060     | 15.91 | 6328UL   | 13.39 | 6541FE   | 13.25 | 7400A    | 15.33 | 7711A    | 6.46  | 819WB    | 6.61  | 8051     | 3.25  |          | 12.42 |
|          | 13.43 | 6100FE   | 13.23 | 6339Q8   | 13.34 | 6541PA   | 12.26 | 7401A    | 15.33 | 7712A    | 6.46  | 819WB    | 6.61  | 8052     | 3.25  | 8254     | 6.81  |
| 5501G1   | 13.18 |          | 13.45 | 6341PC   | 13.29 |          | 13.29 | 7401AS   | 15.33 |          | 12.54 | 819WB    | 6.61  | 8053     | 3.25  | 8255     | 6.81  |
| 5501GE   | 13.17 | 6100UE   | 13.21 | 6341UE   | 13.24 | 6541UE   | 13.24 | 7402A    | 15.33 | 7713A    | 6.46  | 819WB    | 6.61  | 8054     | 3.25  | 8259     | 6.64  |
| 5501UE   | 13.8  |          | 14.19 | 6342FE   | 13.25 | 6542FE   | 13.25 | 7402AS   | 15.33 |          | 12.54 | 819WB    | 6.61  | 8055     | 3.25  | 8261     | 6.39  |
|          | 13.41 | 6101FE   | 13.23 | 6342PC   | 13.29 | 6542PA   | 12.26 | 7403A    | 15.33 | 7721A    | 6.30  | 819WB    | 6.61  | 8056     | 3.25  |          | 12.46 |
| 5502FE   | 13.11 |          | 13.45 | 6342UE   | 13.24 |          | 13.29 | 7403AS   | 15.33 | 7731A    | 6.44  | 819WB    | 6.61  | 8057     | 3.25  | 8262     | 6.73  |
| 5502G1   | 13.18 | 6101UE   | 13.21 | 6343FE   | 13.25 | 6542UE   | 13.24 | 7404A    | 15.33 |          | 12.52 | 819WB    | 6.61  | 8058     | 3.25  | 8263     | 6.36  |
| 5502GE   | 13.17 |          | 13.44 | 6343PC   | 13.29 | 6543FE   | 13.25 | 7404AS   | 15.33 | 7732A    | 6.44  | 819WB    | 6.61  | 8059     | 3.25  |          | 12.43 |
| 5502UE   | 13.8  | 6102UE   | 13.21 | 6343UE   | 13.24 | 6543PA   | 12.26 | 7405A    | 15.33 |          | 12.52 | 819WB    | 6.61  | 8060     | 3.25  | 8267     | 6.74  |
|          |       | 6120FL   | 13.39 | 6345FE   | 13.25 |          | 13.29 | 7406A    | 15.33 | 7733A    | 6.66  | 819WB    | 6.61  | 8061     | 3.25  | 8279     | 6.41  |
|          |       | 6120UJ   | 13.40 | 6345PC   | 13.29 | 6543UE   | 13.24 | 7407A    | 15.33 | 7787A    | 12.53 | 819WB    | 6.61  | 8062     | 3.25  |          | 12.49 |
|          |       | 6120UL   | 13.39 | 6345UE   | 13.24 | 6545FE   | 13.25 | 7408A    | 15.33 |          |       | 819WB    | 6.61  | 8063     | 3.25  |          |       |



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|          | 6.43  | 8455     | 9.9   |          | 12.16 | 8794     | 4.3   |          | 12.49 | 9337     | 15.42 |          | 12.12 | 9574     | 4.32  | 9741     | 5.8   |
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| 8281B    | 6.30  | 8457     | 4.4   |          | 12.16 | 8816     | 3.8   |          | 12.49 | 9342     | 15.58 | 9463     | 6.83  | 9576     | 4.32  | 9743     | 5.8   |
|          | 6.43  | 8458     | 4.4   | 8720     | 5.22  | 8824     | 3.8   | 9212     | 6.75  | 9343     | 15.60 |          | 15.13 | 9578     | 4.32  | 9744     | 5.5   |
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| 8281F    | 6.30  | 8459     | 4.4   | 8722     | 5.47  | 8866     | 3.22  |          | 12.40 | 9354     | 6.87  | 9463F    | 15.13 | 9580     | 4.33  | 9746     | 5.5   |
|          | 6.43  | 8460     | 12.34 | 8723     | 5.38  | 8868     | 3.22  | 9222     | 6.86  | 9355     | 6.87  | 9464     | 5.20  | 9581     | 4.33  | 9747     | 5.5   |
|          | 12.51 | 8461     | 5.7   |          | 12.13 | 8869     | 3.22  | 9223     | 6.78  | 9356     | 6.87  |          | 12.14 | 9582     | 4.33  | 9748     | 5.5   |
| 8286     | 12.65 |          | 12.36 |          | 14.18 | 8888     | 9.3   | 9224     | 6.78  | 9363     | 15.42 | 9486     | 15.56 | 9583     | 4.33  | 9750     | 5.7   |
| 8302     | 5.32  | 8465     | 4.5   |          | 15.27 |          |       | 9228     | 6.81  | 9364     | 15.44 | 9487     | 15.58 | 9585     | 5.4   | 9751     | 5.7   |
| 8303     | 5.32  | 8466     | 4.5   | 8724     | 5.46  | 8890     | 3.24  | 9231     | 6.42  | 9365     | 15.47 | 9488     | 15.60 | 9608     | 4.17  | 9752     | 5.7   |
| 8304     | 5.32  | 8467     | 4.5   | 8725     | 5.47  | 8897     | 3.23  |          | 6.56  | 9366     | 15.49 | 9489     | 15.61 | 9609     | 4.17  | 9755     | 5.7   |
| 8305     | 5.32  | 8468     | 4.5   | 8728     | 5.46  | 8898     | 3.24  | 9232     | 6.52  | 9367     | 15.50 | 9491     | 15.42 | 9610     | 4.17  | 9764     | 6.27  |
| 8306     | 5.32  | 8469     | 4.5   | 8729     | 4.12  | 8899     | 3.23  |          | 12.59 | 9368     | 15.45 | 9492     | 15.44 | 9611     | 4.17  | 9767     | 5.40  |
| 8307     | 5.32  | 8470     | 12.34 | 8730     | 5.46  | 8908     | 3.6   | 9239     | 6.78  | 9369     | 15.45 | 9493     | 15.47 | 9612     | 4.17  |          | 12.24 |
| 8308     | 5.32  | 8471     | 5.9   | 8732     | 5.23  | 8910     | 3.5   | 9240     | 6.37  | 9388     | 15.45 | 9494     | 15.49 | 9613     | 4.17  | 9768     | 5.40  |
| 8310     | 5.32  |          | 12.36 | 8734     | 4.14  | 8915     | 3.5   |          | 12.44 | 9389     | 15.45 | 9495     | 15.50 | 9614     | 4.17  |          | 12.24 |
| 8312     | 5.32  | 8472     | 9.4   | 8735     | 4.14  | 8916     | 3.5   | 9244     | 6.36  | 9390     | 15.45 | 9497     | 12.34 | 9615     | 4.17  | 9769     | 5.40  |
| 8315     | 5.32  | 8473     | 5.9   | 8737     | 5.24  | 8917     | 3.5   |          | 12.43 | 9391     | 15.45 | 9498     | 4.6   | 9616     | 4.17  |          | 12.24 |
| 8318     | 5.32  |          | 12.36 |          | 12.12 | 8918     | 3.5   | 9248     | 6.38  | 9392     | 15.45 |          |       | 9617     | 4.17  | 9770     | 4.12  |
| 8325     | 5.32  | 8477     | 5.9   | 8740     | 5.4   | 8919     | 3.5   |          | 12.45 | 9394     | 12.4  | 9501     | 5.11  | 9618     | 4.17  | 9772     | 4.20  |
| 8332     | 5.29  |          | 12.36 | 8741     | 5.4   | 8920     | 3.5   | 9250     | 6.83  | 9395     | 12.4  | 9502     | 5.11  | 9619     | 4.17  | 9773     | 5.42  |
| 8333     | 5.29  | 8478     | 9.4   | 8742     | 5.4   | 9011     | 6.26  |          | 15.14 | 9396     | 12.4  | 9503     | 5.11  | 9620     | 4.6   | 9774     | 5.42  |
| 8334     | 5.29  | 8479     | 9.6   | 8743     | 5.4   | 9058     | 6.23  | 9251     | 6.65  | 9397     | 12.5  | 9504     | 5.11  | 9621     | 4.6   | 9775     | 5.42  |
| 8335     | 5.29  | 8486     | 5.7   | 8744     | 5.4   | 9059AM   | 6.23  | 9252     | 6.72  | 9398     | 12.8  | 9505     | 5.11  | 9622     | 4.6   | 9776     | 5.42  |
| 8336     | 5.29  | 8489     | 4.5   | 8747     | 5.5   | 9062     | 6.23  | 9254     | 12.66 | 9399     | 12.5  | 9506     | 5.12  | 9623     | 4.7   | 9777     | 5.42  |
| 8337     | 5.29  | 8500     | 3.7   | 8748     | 5.5   | 9064     | 6.27  | 9258     | 6.65  | 9402     | 5.41  | 9507     | 5.12  | 9624     | 4.6   | 9778     | 12.4  |
| 8340     | 5.29  | 8501     | 3.7   | 8749     | 5.5   | 9065M    | 6.27  | 9259     | 6.36  | 9405     | 4.8   | 9508     | 5.12  | 9626     | 4.6   | 9791     | 4.16  |
| 8342     | 5.29  | 8502     | 3.7   | 8750     | 5.5   | 9066     | 6.19  |          | 12.43 | 9406     | 5.38  | 9509     | 5.12  | 9637     | 4.16  | 9794     | 4.3   |
| 8345     | 5.29  | 8503     | 3.7   | 8751     | 5.17  | 9072     | 6.23  | 9260     | 4.14  | 9407     | 15.41 | 9510     | 5.12  | 9641     | 4.16  | 9802     | 4.22  |
| 8348     | 5.29  | 8504     | 3.7   | 8752     | 5.18  | 9077     | 6.19  | 9261     | 4.14  | 9408     | 15.43 | 9512     | 15.41 | 9659     | 6.36  | 9803     | 4.22  |
| 8355     | 5.29  | 8505     | 3.7   | 8757     | 5.4   | 9100     | 6.16  | 9262     | 12.65 | 9409     | 15.45 | 9513     | 15.41 |          | 12.43 | 9804     | 5.26  |
| 8401     | 12.4  | 8520     | 3.7   | 8759     | 5.24  |          | 12.44 | 9265     | 12.63 | 9410     | 15.48 | 9514     | 15.41 | 9680     | 5.15  | 9805     | 5.26  |
| 8402     | 12.6  | 8521     | 3.7   |          | 12.14 | 9104     | 6.17  | 9267     | 6.51  | 9411     | 15.50 | 9515     | 5.12  | 9681     | 5.15  | 9806     | 5.26  |
| 8403     | 12.8  | 8522     | 3.7   | 8760     | 5.21  | 9104N    | 6.17  |          | 12.58 | 9412     | 15.51 | 9516     | 15.41 | 9682     | 5.15  | 9807     | 5.26  |
| 8404     | 12.9  | 8523     | 3.7   |          | 12.15 | 9104P    | 6.17  | 9268     | 6.81  | 9414     | 5.18  | 9519     | 5.12  | 9683     | 5.15  | 9808     | 5.26  |
| 8405     | 12.39 | 8524     | 3.7   |          | 15.27 | 9110     | 6.17  | 9269     | 6.81  | 9418     | 4.13  | 9520     | 15.41 | 9684     | 5.15  | 9809     | 5.26  |
| 8406     | 12.8  | 8525     | 3.7   | 8761     | 5.18  | 9116     | 6.19  | 9271     | 6.84  | 9420     | 4.9   | 9521     | 15.41 | 9685     | 5.46  | 9812     | 5.26  |
| 8407     | 12.9  | 8527     | 3.7   |          | 12.12 | 9116N    | 6.19  |          | 15.15 | 9421     | 4.3   | 9524     | 15.41 | 9686     | 4.7   | 9813     | 5.26  |
| 8408     | 12.7  | 8529     | 3.7   | 8762     | 5.18  | 9116P    | 6.19  | 9272     | 6.83  | 9422     | 4.9   | 9525     | 5.12  | 9688     | 11.20 | 9814     | 5.26  |
| 8410     | 12.4  | 8530     | 3.7   |          | 12.14 | 9116R    | 6.19  |          | 15.14 | 9423     | 4.3   | 9526     | 15.41 | 9689     | 11.21 | 9815     | 6.83  |
| 8412     | 12.6  | 8538     | 3.7   | 8763     | 5.47  | 9117M    | 6.19  | 9273     | 6.73  | 9424     | 4.9   | 9527     | 15.41 | 9696     | 5.33  | 9819     | 5.26  |
| 8413     | 12.5  | 8597     | 3.7   | 8764     | 5.37  | 9118     | 6.21  | 9274     | 6.37  |          | 9.10  | 9531     | 3.8   | 9708     | 12.33 | 9825     | 5.26  |
| 8416     | 12.38 | 8618     | 4.13  | 8765     | 5.37  | 9119M    | 6.21  |          | 12.44 | 9425     | 4.9   | 9533     | 4.11  | 9712     | 12.33 | 9829     | 5.30  |
| 8417     | 12.38 | 8619     | 4.6   | 8766     | 5.37  | 9141     | 6.43  | 9275     | 6.16  | 9426     | 9.10  | 9534     | 4.11  | 9716     | 12.33 | 9830     | 5.30  |
| 8418     | 12.39 | 8620     | 4.6   | 8767     | 5.37  |          | 12.51 |          | 12.44 |          |       | 9535     | 4.11  |          | 14.17 | 9831     | 5.30  |
| 8421     | 12.39 | 8621     | 4.6   | 8768     | 5.37  | 9151     | 12.34 | 9290     | 6.38  | 9427     | 4.9   | 9536     | 4.11  | 9717     | 12.33 | 9832     | 5.30  |
| 8422     | 12.6  | 8622     | 4.6   | 8769     | 5.40  | 9154     | 5.20  |          | 12.45 |          | 9.10  | 9537     | 4.11  |          | 14.17 | 9833     | 5.30  |
| 8423     | 12.8  | 8623     | 4.6   |          | 12.24 |          | 12.14 | 9292     | 6.39  | 9429     | 4.9   | 9538     | 4.11  | 9718     | 12.33 | 9834     | 5.30  |
| 8424     | 12.9  | 8624     | 4.6   | 8770     | 4.13  | 9155     | 5.47  |          | 12.46 |          | 9.10  | 9539     | 4.11  |          | 14.17 | 9835     | 5.30  |
| 8425     | 12.39 | 8627     | 4.7   |          | 12.17 | 9156     | 5.8   | 9302     | 5.17  | 9430     | 4.3   | 9540     | 4.11  | 9721     | 4.6   | 9836     | 5.30  |
| 8426     | 12.39 | 8628     | 4.7   | 8771     | 4.12  | 9157     | 5.8   | 9305     | 5.17  |          | 9.10  | 9541     | 4.11  | 9728     | 5.35  | 9837     | 5.30  |
| 8427     | 12.39 | 8629     | 4.7   | 8772     | 4.12  | 9159     | 5.8   | 9306     | 5.17  | 9431     | 4.4   | 9542     | 4.11  |          | 12.30 | 9838     | 5.30  |
| 8428     | 12.7  | 8641     | 5.16  | 8773     | 5.40  | 9160     | 5.4   | 9309     | 5.17  | 9432     | 4.4   | 9543     | 4.11  | 9729     | 5.35  | 9839     | 5.30  |
| 8434     | 5.46  | 8643     | 4.14  |          | 12.24 | 9161     | 5.8   | 9310     | 6.63  | 9433     | 4.4   | 9544     | 4.11  |          | 15.27 | 9841     | 5.28  |
| 8437     | 5.23  | 8649     | 12.33 | 8774     | 5.40  | 9165     | 12.63 | 9311     | 6.64  | 9434     | 4.4   | 9545     | 4.11  | 9730     | 5.35  | 9842     | 5.28  |
| 8441     | 5.23  | 8660     | 3.26  |          | 12.24 | 9167     | 6.29  | 9312     | 15.51 | 9438     | 3.26  | 9546     | 4.11  |          | 12.30 | 9843     | 5.28  |
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| 27600A   | 15.63 | 27870    | 15.74 | 28284    | 15.71 | 28889    | 15.75 | 31500    | 3.18 | 35610    | 3.14 | 49636    | 8.7  | 82269    | 6.82  | 83027    | 3.9   |
| 27601A   | 15.63 | 27871    | 15.74 | 28285    | 15.71 | 28890    | 15.75 | 31501    | 3.18 | 35612    | 3.14 | 49637    | 8.7  | 82418    | 4.13  | 83028    | 3.9   |
| 27602A   | 15.63 | 27872    | 15.74 | 28286    | 15.71 | 28891    | 15.75 | 31502    | 3.18 | 35614    | 3.14 | 49638    | 8.7  |          | 4.24  | 83029    | 3.9   |
| 27603A   | 15.63 | 27873    | 15.74 | 28287    | 15.71 | 28892    | 15.75 | 31504    | 3.18 | 35616    | 3.14 | 49639    | 8.7  | 82442    | 4.4   | 83030    | 3.9   |
| 27604A   | 15.63 | 27874    | 15.74 | 28288    | 15.71 | 28893    | 15.75 | 31506    | 3.18 | 35618    | 3.14 | 49642    | 8.7  |          | 4.23  | 83041    | 3.11  |
| 27605A   | 15.63 | 27875    | 15.74 | 28289    | 15.71 | 28894    | 15.74 | 31508    | 3.18 | 35620    | 3.14 | 49643    | 8.7  |          | 5.6   | 83043    | 3.11  |
| 27606A   | 15.63 | 27876    | 15.74 | 28290    | 15.71 | 28895    | 15.74 | 31510    | 3.18 | 35622    | 3.14 | 49644    | 8.7  | 82444    | 4.4   | 83045    | 3.11  |
| 27607A   | 15.63 | 27877    | 15.74 | 28291    | 15.71 | 28896    | 15.74 | 31512    | 3.18 | 35716    | 3.14 | 49645    | 8.7  |          | 4.23  | 83046    | 3.11  |
| 27608A   | 15.63 | 27878    | 15.74 | 28292    | 15.70 | 28899    | 15.70 | 31514    | 3.18 | 35718    | 3.14 | 49653A   | 8.5  | 82489    | 4.6   | 83047    | 3.11  |
| 27609A   | 15.63 | 27879    | 15.74 | 28293    | 15.71 | 29004    | 15.88 | 31516    | 3.18 | 35720    | 3.14 | 49657    | 8.7  |          | 4.23  | 83048    | 3.11  |
| 27610A   | 15.63 | 27880    | 15.74 | 28428    | 15.72 | 29005    | 15.88 | 31518    | 3.18 | 35722    | 3.14 | 49660A   | 8.4  | 82502    | 5.13  | 83049    | 3.11  |
| 27611A   | 15.63 | 27881    | 15.74 | 28429    | 15.72 | 29006    | 15.88 | 31520    | 3.18 | 36100    | 3.17 | 49668A   | 8.4  |          | 5.49  | 83050    | 3.11  |
| 27612A   | 15.63 | 27882    | 15.74 | 28430    | 15.72 | 29007    | 15.88 | 31590    | 3.18 | 36101    | 3.17 | 49669A   | 8.4  | 82503    | 5.13  | 83242    | 6.73  |
| 27613A   | 15.63 | 27883    | 15.74 | 28431    | 15.72 | 29008    | 15.88 | 32410    | 3.20 | 36102    | 3.17 | 49670A   | 8.4  |          | 5.49  | 83264    | 6.75  |
| 27614A   | 15.63 | 27884    | 15.74 | 28432    | 15.70 | 29009    | 15.88 | 32412    | 3.20 | 36104    | 3.17 | 49671A   | 8.4  | 82504    | 5.13  | 83265    | 6.72  |
| 27615A   | 15.64 | 27885    | 15.73 | 28433    | 15.70 | 29016    | 15.88 | 32414    | 3.20 | 36106    | 3.17 | 49673A   | 8.4  |          | 5.49  | 83266    | 6.76  |
| 27616A   | 15.64 | 27886    | 15.73 | 28434    | 15.70 | 29017    | 15.88 | 32416    | 3.20 | 36108    | 3.17 | 49674A   | 8.4  | 82505    | 5.13  | 83267    | 6.80  |
| 27617A   | 15.64 | 27887    | 15.73 | 28535    | 15.70 | 29018    | 15.88 | 32418    | 3.20 | 36140    | 3.17 | 49675A   | 8.4  |          | 5.49  | 83269    | 6.63  |
| 27618A   | 15.64 | 27888    | 15.75 | 28538    | 15.70 | 29019    | 15.88 | 32516    | 3.18 | 36190    | 3.17 | 49676A   | 8.4  | 82506    | 5.13  | 83284    | 6.72  |
| 27619A   | 15.64 | 27889    | 15.75 | 28539    | 15.70 | 29020    | 15.88 | 32518    | 3.18 | 37100    | 3.12 | 49720A   | 8.3  |          | 5.49  | 83303    | 4.30  |
| 27620A   | 15.64 | 27890    | 15.75 | 28540    | 15.70 | 29021    | 15.88 | 32718    | 3.5  | 37101    | 3.12 | 49721A   | 8.3  | 82509    | 5.13  | 83304    | 4.30  |
| 27621A   | 15.64 | 27891    | 15.75 | 28541    | 15.71 | 29022    | 15.88 | 32720    | 3.5  | 37102    | 3.12 | 49725A   | 8.3  |          | 5.49  | 83305    | 4.30  |
| 27622A   | 15.64 | 27892    | 15.75 | 28840    | 15.73 | 29023    | 15.88 | 32722    | 3.5  | 37103    | 3.12 | 49726A   | 8.3  | 82512    | 5.13  | 83306    | 4.31  |
| 27623A   | 15.64 | 27893    | 15.75 | 28841    | 15.73 | 29024    | 15.88 | 32820    | 3.4  | 37104    | 3.12 | 49733    | 8.7  | 82641    | 5.16  | 83307    | 4.31  |
| 27624A   | 15.64 | 27894    | 15.74 | 28842    | 15.73 | 29025    | 15.88 | 32822    | 3.4  | 37106    | 3.12 | 49734    | 8.7  |          | 5.49  | 83308    | 4.31  |
| 27625A   | 15.64 | 27895    | 15.74 | 28843    | 15.73 | 29030    | 15.88 | 32822    | 3.4  | 37108    | 3.12 | 49735    | 8.7  | 82688    | 11.20 | 83317    | 4.30  |
| 27626A   | 15.64 | 27896    | 15.74 | 28844    | 15.73 | 29031    | 15.88 | 33002    | 3.19 | 37110    | 3.12 | 49736    | 8.7  | 82689    | 11.21 | 83318    | 4.30  |
| 27627A   | 15.64 | 27912A   | 15.65 | 28845    | 15.73 | 29032    | 15.88 | 33004    | 3.19 | 37111    | 3.12 | 49737    | 8.7  | 82723    | 5.38  | 83319    | 4.30  |
| 27628A   | 15.64 | 27916A   | 15.63 | 28846    | 15.73 | 29033    | 15.88 | 33006    | 3.19 | 37112    | 3.12 | 49738    | 8.7  |          | 5.54  | 83320    | 4.31  |
| 27629A   | 15.65 | 27917A   | 15.64 | 28847    | 15.73 | 29034    | 15.88 | 33008    | 3.19 | 37114    | 3.12 | 49739    | 8.7  |          | 12.13 | 83321    | 4.31  |
| 27630A   | 15.66 | 27969    | 15.70 | 28848    | 15.73 | 29035    | 15.88 | 33010    | 3.19 | 37116    | 3.12 | 49740A   | 8.3  | 82729    | 5.36  | 83322    | 4.31  |
| 27632A   | 15.63 | 28243    | 15.70 | 28849    | 15.73 | 29036    | 15.88 | 33012    | 3.19 | 37118    | 3.12 | 49745A   | 8.3  |          | 5.53  | 83323    | 4.30  |
| 27633A   | 15.64 | 28244    | 15.70 | 28850    | 15.73 | 29038    | 15.88 | 33014    | 3.19 | 37130    | 3.12 | 49746A   | 8.3  |          | 12.31 | 83332    | 4.30  |
| 27634A   | 15.66 | 28245    | 15.70 | 28851    | 15.73 | 29040    | 15.88 | 33016    | 3.19 | 37140    | 3.12 | 49747A   | 8.3  | 82740    | 5.9   | 83333    | 4.30  |
| 27636A   | 15.65 | 28246    | 15.70 | 28852    | 15.73 | 29043    | 15.88 | 33018    | 3.19 | 37190    | 3.12 | 49760A   | 8.5  |          | 5.48  | 83334    | 4.30  |
| 27641A   | 15.66 | 28247    | 15.70 | 28853    | 15.73 | 29048    | 15.88 | 33020    | 3.19 | 37212    | 3.13 | 49761A   | 8.5  | 82741    | 5.6   | 83335    | 4.31  |
| 27643A   | 15.67 | 28248    | 15.70 | 28854    | 15.73 | 29049    | 15.88 | 33022    | 3.19 | 37214    | 3.13 | 49762A   | 8.5  |          | 5.48  | 83336    | 4.31  |
| 27830    | 15.84 | 28249    | 15.70 | 28855    | 15.73 | 29053    | 15.88 | 33030    | 3.19 | 37216    | 3.13 | 49765A   | 8.5  | 82742    | 5.6   | 83337    | 4.31  |
| 27831    | 15.85 | 28250    | 15.70 | 28856    | 15.73 | 29058    | 15.88 | 33036    | 3.19 | 37218    | 3.13 | 49766A   | 8.5  |          | 5.48  | 83347    | 4.30  |
| 27840    | 15.73 | 28251    | 15.70 | 28857    | 15.73 | 29068    | 15.88 | 33038    | 3.19 | 37220    | 3.13 | 49767A   | 8.5  | 82743    | 5.6   | 83348    | 4.30  |
| 27841    | 15.73 | 28252    | 15.70 | 28858    | 15.73 | 29078    | 15.88 | 33040    | 3.19 | 37222    | 3.13 | 49801A   | 8.6  |          | 5.48  | 83349    | 4.30  |
| 27842    | 15.73 | 28253    | 15.70 | 28859    | 15.73 | 29500    | 15.28 | 34017    | 3.21 | 37500    | 3.13 | 49802A   | 8.6  | 82757    | 5.6   | 83350    | 4.31  |
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| 27844    | 15.73 | 28255    | 15.70 | 28861    | 15.73 | 29502    | 15.28 | 34400    | 3.16 | 37502    | 3.13 | 49813A   | 8.6  | 82760    | 5.21  | 83352    | 4.31  |
| 27845    | 15.73 | 28256    | 15.70 | 28862    | 15.73 | 29503    | 15.28 | 34401    | 3.16 | 37504    | 3.13 | 49900A   | 8.3  |          | 12.15 | 83393    | 4.29  |
| 27846    | 15.73 | 28257    | 15.71 | 28863    | 15.73 | 29504    | 15.28 | 34402    | 3.16 | 37506    | 3.13 | 49901A   | 8.3  | 82761    | 5.20  | 83394    | 4.29  |
| 27847    | 15.73 | 28258    | 15.71 | 28864    | 15.73 | 29505    | 15.28 | 34403    | 3.16 | 37508    | 3.13 | 49902A   | 8.3  |          | 5.51  | 83395    | 4.29  |
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| 27850    | 15.73 | 28261    | 15.71 | 28867    | 15.74 | 30800    | 3.20  | 34408    | 3.16 | 37590    | 3.13 | 49907A   | 8.3  | 82778    | 5.41  | 83504    | 4.25  |
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| 83934    | 15.54 |          | 5.54  | 89901    | 11.18 | 9L28034  | 7.5  | C5503    | 15.89 | DT120FM  | 10.12 | MLD5008  | 10.7  | PTDP102  | 10.4 |
| 83950    | 15.54 |          | 12.13 | 89907    | 6.79  | 9L28036  | 7.5  | C5504    | 15.89 | DT144FM  | 10.12 | MLD5012  | 10.7  | PTDP104  | 10.4 |
| 83951    | 15.54 |          | 15.27 |          | 11.17 | 9L28037  | 7.5  | C5505    | 15.89 | I100255  | 10.10 | MLD5018  | 10.7  | PTDP106  | 10.4 |
| 83952    | 15.54 | 88741    | 5.6   |          | 15.11 | 9L28040  | 7.5  | C5506    | 15.89 |          | 15.5  | MLD5024  | 10.7  | PTDP112  | 10.4 |
| 83953    | 15.54 |          | 5.48  | 89913    | 6.66  | 9L28050  | 7.5  | C5508    | 15.89 | I100266  | 10.10 | MLD5036  | 10.7  | PTDP124  | 10.4 |
| 83954    | 15.54 | 88757    | 5.6   | 121700A  | 15.5  | 9L28060  | 7.5  | C5510    | 15.89 |          | 15.5  | MLD6002  | 10.7  | PTDP136  | 10.4 |
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| 84142    | 6.73  | 88760    | 5.21  | 121872A  | 15.9  | 9L28069  | 7.5  | C5518    | 15.89 | I100455  | 10.10 | MLD6006  | 10.7  | PTDP504  | 10.4 |
| 84303    | 6.73  |          | 5.51  | 129463   | 15.14 | 9L28309  | 7.11 | C5523    | 15.89 |          | 15.5  | MLD6012  | 10.7  | PTDP506  | 10.4 |
| 84316    | 6.72  | 88761    | 5.20  | 139463   | 15.14 | 9L28310  | 7.11 | C5528    | 15.89 | I100466  | 10.10 | MLD6018  | 10.7  | PTDP512  | 10.4 |
| 85102    | 4.28  |          | 12.12 | 189463   | 15.14 | 9L28315  | 7.11 | C5529    | 15.89 |          | 15.5  | MLD6024  | 10.7  | PTDP524  | 10.4 |
| 85103    | 4.28  |          | 5.51  | 513945   | 13.30 | 9L28320  | 7.11 | C5530    | 15.89 | I100655  | 10.10 | MLD6036  | 10.7  | PTDP536  | 10.4 |
| 85105    | 4.28  | 88770    | 4.13  | 533945   | 13.30 | 9L28325  | 7.11 | C5531    | 15.89 |          | 15.5  | MLM6004  | 10.9  | PTDP602  | 10.4 |
| 85107    | 4.28  | 88777    | 5.41  | 539945   | 13.32 | 9L28326  | 7.11 | C5532    | 15.89 |          | 15.5  | MLM6006  | 10.9  | PTDP604  | 10.4 |
| 85109    | 4.28  |          | 12.25 | 543945   | 13.30 | 9L28334  | 7.11 | C5533    | 15.89 |          | 15.10 | MLM6008  | 10.9  | PTDP606  | 10.4 |
| 85164    | 5.11  | 88778    | 5.41  |          | 14.20 | 9L28336  | 7.11 | C5534    | 15.89 | I100666  | 10.10 | MLM6012  | 10.9  | PTDP612  | 10.4 |
| 85168    | 5.11  |          | 5.54  | 549945   | 13.32 | 9L28337  | 7.11 | C5535    | 15.89 |          | 15.5  | MLM6018  | 10.9  | PTDP624  | 10.4 |
| 85220    | 4.28  |          | 12.25 |          | 14.20 | 9L28340  | 7.11 | C5538    | 15.89 |          | 15.10 | MLM6024  | 10.9  | PTDP636  | 10.4 |
| 85221    | 4.28  | 89108    | 6.18  | 551945   | 13.30 | 9L28350  | 7.11 | C5539    | 15.89 | I400855  | 10.10 | MLM6036  | 10.9  | PTS1001  | 10.3 |
| 85230    | 4.29  | 89120    | 6.25  | 573945   | 13.30 | 9L28360  | 7.11 | C5540    | 15.89 |          | 15.5  | MLS5002  | 10.6  | PTS5001  | 10.3 |
| 85231    | 4.29  | 89182    | 6.84  | 613948   | 13.33 | 9L28364  | 7.11 | C5543    | 15.89 | I400866  | 10.10 | MLS5004  | 10.6  | PTS6001  | 10.3 |
| 85240    | 4.29  |          | 15.15 | 633938   | 13.34 | 9L30026  | 7.3  | C5548    | 15.89 |          | 15.5  | MLS5006  | 10.6  | PTSP101  | 10.3 |
| 85241    | 4.29  | 89207    | 6.84  | 633948   | 13.33 | 9L30050  | 7.3  | C5553    | 15.89 |          | 15.10 | MLS5008  | 10.6  | PTSP501  | 10.3 |
| 86262    | 6.82  | 89248    | 6.38  | 639948   | 13.32 | 9R28010  | 7.7  | C5558    | 15.89 | I601055  | 10.10 | MLS5012  | 10.6  | PTSP601  | 10.3 |
| 87120    | 6.25  |          | 12.45 | 643948   | 13.33 | 9R28014  | 7.7  | C5560    | 15.90 |          | 15.5  | MLS5018  | 10.6  | PTZ1002  | 10.3 |
| 87269    | 6.82  | 89259    | 6.36  | 649948   | 13.32 | 9R28016  | 7.7  | C5561    | 15.90 |          | 15.10 | MLS5024  | 10.6  | PTZ5002  | 10.3 |
| 87723    | 5.54  |          | 12.43 | 673948   | 13.33 | 9R28020  | 7.7  | C5562    | 15.90 | I601255  | 10.10 | MLS5036  | 10.6  | PTZ6002  | 10.3 |
|          | 12.13 | 89269    | 6.82  | 2128026  | 7.4   | 9R28024  | 7.7  | C5563    | 15.90 |          | 15.5  | MLS6002  | 10.6  | PTZP102  | 10.3 |
|          |       | 89272    | 6.83  | 2128034  | 7.4   | 9R28025  | 7.7  | C5564    | 15.90 | I601266  | 10.10 | MLS6004  | 10.6  | PTZP502  | 10.3 |
|          |       | 89292    | 6.39  | 2128040  | 7.4   | 9R28026  | 7.7  | C5565    | 15.90 |          | 15.5  | MLS6006  | 10.6  | PTZP602  | 10.3 |
|          |       |          | 12.46 | 2128044  | 7.4   | 9R28034  | 7.7  |          |       |          | 15.10 |          |       |          |      |
|          |       |          |       | 2128050  | 7.4   |          |      |          |       |          |       |          |       |          |      |





## Welcome To The Most Complete Resource In The Industry For Reliable Electronic Wire And Cable:

The Belden® Master Catalog is a uniquely distinctive publication. An unparalleled resource for electronic wire and cable solutions, the catalog represents Belden's commitment to providing you with the most reliable electronic wire and cable products, whatever the application or need.

## The Industry's Premier Source Of Information For Today's Designers And Specifiers.

The catalog, however, is much more than a listing of products. It is also the industry's premier source of information for today's designers and specifiers. We believe you'll find our Master Catalog to be an essential tool for solving a wide range of application problems.

### Choose From More Than 3,000 Wire And Cable Products

Belden has one of the largest product offerings in the markets we serve. Our selection of more than 3,000 wire and cable products is devoted to applications such as:

- > Home automation systems and networks
- > Computer networking and equipment for commercial organizations
- > Alarm, security and communications

- > Industrial networking, instrumentation and control systems
- > Broadcast, entertainment and broadband markets
- > Wireless communications
- > Electrical equipment, including motors and apparatus

Every one of our products is the result of foresight and leadership, and a proactive response to both emerging technologies and the changing needs of our customers.

### Our Commitment To World-Class Manufacturing Is Unrivaled

Our world-class manufacturing standards are at the very heart of what distinguishes us from our competitors. All Belden products are manufactured using the industry's highest standards of quality, with the most advanced equipment, systems, controls and processes.

### Quality Management System Further Ensures Product Reliability

To assure Belden products meet your requirements, we use a formal, documented Quality Management System based on our Quality Policy and the ISO 9000 family of international standards. Belden Electronics was the first UL Registered Wire and Cable Company to receive registration to ISO 9001:2002. Our ISO certification is a confirmation of Belden's pledge to total quality and to continual improvement through our company's quality processes.

What this all adds up to is an unceasing dedication to reliability, which is at the root of Belden's aggressive, continual search for ways to meet the often complicated needs of our customers.



## Belden® Quality

### Setting Reliability Standards While Continuing To Raise The Bar

Belden's commitment to quality begins even before our cable products leave the product development phase. Not only do we design products to achieve a given level of performance, we also ensure that these products can be manufactured in a way that makes *Installable Performance™* possible and consistent. Here's a look at how we do it:



### Design For Manufacturability

Delivering a superior product means being sure you can make a superior product, day after day. Design for Manufacturability (DFM) seeks to identify and account for the challenges inherent in any manufacturing process and address them up front. It takes into account every aspect of manufacturing: materials, machines, operations, environmental factors and more.

The purpose of DFM is to design products that are robust enough to stand up to the challenges of manufacturing to yield consistent, superior product quality. Unlike sorting or inspection, which focuses solely on an already produced product, DFM is focused on the entire manufacturing process and how it can be monitored, controlled and adjusted to achieve our quality goals.

The DFM Process involves a wide range of personnel, from production, engineering, quality, and marketing, bringing together the entire team in a way that shortens the product development cycle and allows us to make better products with remarkable speed. But the real benefit to our customers is that our products achieve high performance standards that are consistent and measurable.

### Monitoring And Maintaining Quality

Before we release any new products for production, all critical characteristics of Belden products are targeted to meet a capability index of  $Cpk \geq 1.33$ , which corresponds to a 99.997% passing rate. A Cpk is an index that quantifies the capability of a product's design and manufacturing process. The Cpk values are determined through capability studies, which represent the final product design and manufacturing set-ups. This includes statistically valid run times, footage, and sampling methods. The result is a Cpk value that corresponds to a predicted defect rate for the product.

Belden's Cpk testing methods are actually more reliable than simple "pass/fail" testing on cable as it comes off the manufacturing line. Rather than merely testing batches of cable, Cpk testing allows Belden to monitor and control the long-term quality and performance of the cable we produce. It gives us an accurate measurement of quality over time, so that we can adjust our manufacturing processes in ways that ensure the production of high performance cable, day in and day out.

### Our Sigma Initiative

A number of years ago, in an effort to evaluate the quality of our products, Belden adopted the "Sigma" concept. In technical terms, Sigma, also known as standard deviation from the mean, measures the variability in a process. At Belden, Sigma is a quality term that allows us to measure the effectiveness of our process in producing defect-free design, product, delivery, and service — with a defect being *anything* that results in customer dissatisfaction.

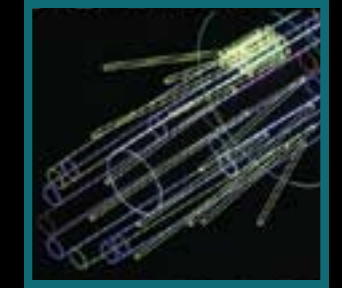
We derive our Sigma level from customer feedback which we convert into Sigma parts per million: The amount of cable footage identified by our customers as not meeting their expectations x 1 million total footage shipped.

As a company, Belden has set a 5-sigma goal, which translates to 233 defective parts per million. It's a goal we have not only achieved, but also exceeded, year after year. We're very proud of this fact because most companies operate at 3-to-4 sigma quality levels.

In the end, quality at Belden is not just a word we toss around because it sounds good. Quality is a commitment. We have built our name and reputation on quality, and our ongoing dedication to that principle will allow us to continually set new standards for reliability, and raise the bar for quality in the wire and cable products industry.

If you'd like to learn more about our quality commitment, request a copy of our Quality Brochure from your local Belden representative.

**Specify Belden...For The Most Reliable Cable Available.**







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**Belden Electronics Division**

**Master Catalog**

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