



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

# Customer Specification

## PART NO. 45464

### Construction

|                   |       |                                                                                                                                                                                                                                                                                                           |       | Diameters (In)     |       |
|-------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|-------|
| 1) Component 1    |       | 4 X 1 COND                                                                                                                                                                                                                                                                                                |       |                    |       |
| a) Conductor      |       | 20 (7/28) AWG TC                                                                                                                                                                                                                                                                                          |       | 0.038              |       |
| b) Insulation     |       | 0.016" Wall, Nom. TPE                                                                                                                                                                                                                                                                                     |       | 0.070              |       |
| (1) Color Code    |       | Alpha Wire Color Code D                                                                                                                                                                                                                                                                                   |       |                    |       |
| Cond              | Color | Cond                                                                                                                                                                                                                                                                                                      | Color | Cond               | Color |
| 1                 | BLACK | 3                                                                                                                                                                                                                                                                                                         | WHITE |                    |       |
| 2                 | RED   | 4                                                                                                                                                                                                                                                                                                         | GREEN |                    |       |
| 2) Cable Assembly |       | 4 Components Cabled                                                                                                                                                                                                                                                                                       |       |                    |       |
| a) Twists:        |       | 6.0 Twists/foot (min)                                                                                                                                                                                                                                                                                     |       |                    |       |
| b) Core Wrap      |       | Nonwoven Polyester Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                |       |                    |       |
| 3) Shield:        |       | Alum/Mylar Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                        |       |                    |       |
| a) Foil Direction |       | Foil Facing In                                                                                                                                                                                                                                                                                            |       |                    |       |
| b) Drain Wire     |       | 20 (7/28) AWG TC                                                                                                                                                                                                                                                                                          |       |                    |       |
| 4) Jacket         |       | 0.045" Wall, Nom.,TPE                                                                                                                                                                                                                                                                                     |       | 0.268 (0.280 Max.) |       |
| a) Color(s)       |       | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White                                                                                                                                                                                                                                         |       |                    |       |
| b) Ripcord        |       | 1 End 810 Denier Nylon                                                                                                                                                                                                                                                                                    |       |                    |       |
| c) Print          |       | ALPHA WIRE-* P/N 45464 4C 20 AWG<br>XTRAGUARD(R) 4 (UL) TYPE PLTC 105C OR AWM 20237<br>125C 300 VOLTS -- LLXXXXX CSA AWM I/II A/B<br>125C 300 VOLTS FT1 P-07-KA070017-MSHA<br>CE (SEQ FOOTAGE)<br>* = Factory Code<br>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] |       |                    |       |

### Applicable Specifications

|                      |                                                |                              |
|----------------------|------------------------------------------------|------------------------------|
| 1) UL                | AWM/STYLE 20237                                | 125°C / 300 V <sub>RMS</sub> |
|                      | PLTC                                           | 105°C                        |
| 2) CSA International | AWM I/II A/B                                   | 125°C / 300 V <sub>RMS</sub> |
|                      | FT1                                            |                              |
| 3) Other             | PENNSYLVANIA BUREAU OF MINE SAFETY<br>APPROVED |                              |
| 4) CE:               | EU Low Voltage Directive 2006/95/EC            |                              |

### Environmental

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) EU Directive 2002/95/EC(RoHS): |                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                   | All materials used in the manufacture of this part are compliant with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment under the now annulled Exemption 9A which allowed Deca-BDE. Alpha Wire is working to completely remove PBDE's from all products. Consult Alpha Wire's web site for compliance Date of Manufacture. |
| 2) California Proposition 65:     | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.                                                                                                                                                                                                                                                                                     |

## Properties

|                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| Physical & Mechanical Properties                      |                                                   |
| 1) Temperature Range                                  | -50 to 125°C                                      |
| 2) Bend Radius                                        | 10X Cable Diameter                                |
| 3) Pull Tension                                       | 44 Lbs, Maximum                                   |
| 4) Sunlight Resistance                                | Yes                                               |
| Electrical Properties (For Engineering purposes only) |                                                   |
| 1) Voltage Rating                                     | 300 V <sub>RMS</sub>                              |
| 2) Capacitance                                        | 21.7 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance                                 | 39 pf/ft @1 kHz, Nominal                          |
| 4) Inductance                                         | 0.19 µH/ft, Nominal                               |
| 5) Conductor DCR                                      | 10.2 /1000ft @20°C, Nominal                       |
| 6) OA Shield DCR                                      | 8.2 /1000ft @20°C, Nominal                        |

## Other

|                        |                                             |
|------------------------|---------------------------------------------|
| <b>Packaging</b>       | Flange x Traverse x Barrel (inches)         |
| a) 1000 FT             | 12 x 12 x 3.5 Continuous length             |
| b) 500 FT              | 12 x 6 x 3.5 Continuous length              |
| c) Bulk(Made-to-order) |                                             |
|                        | <i>[Spool dimensions may vary slightly]</i> |

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