



**Product:** [7930A](#) 

DataTuff® Cat 5e, 4 Pr #24 Str BC, PO Ins, PVC Jkt, CMX-Outdoor CMR

 [Request Sample](#)

## Product Description

Industrial Ethernet Cat 5e, 4 Pair 24AWG (7x32) Bare Copper, PO Insulation, PVC Outer Jacket, CMX-Outdoor CMR

## Technical Specifications

### Product Overview

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | outdoor, harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc. |
|------------------------|-------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element | Size   | Stranding | Material         | No. of Pairs |
|---------|--------|-----------|------------------|--------------|
| Pair(s) | 24 AWG | 7x32      | BC - Bare Copper | 4            |

#### Insulation

| Material        | Color Code                                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------|
| PO - Polyolefin | White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown |

#### Outer Jacket

| Material                 | Nom. Diameter    |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.24 in (6.1 mm) |

|                                   |                  |
|-----------------------------------|------------------|
| Overall Cable Diameter (Nominal): | 0.24 in (6.1 mm) |
|-----------------------------------|------------------|

### Electrical Characteristics

#### Electricals

| Max. Conductor DCR            | Max. Capacitance Unbalance |
|-------------------------------|----------------------------|
| 93.8 Ohm/km (28.6 Ohm/1000ft) | 330 pF/ft                  |

#### Delay

| Max. Delay  | Max. Delay Skew | Nom. Velocity of Prop. | Typical Delay Skew |
|-------------|-----------------|------------------------|--------------------|
| 510 ns/100m | 45 ns/100m      | 69%                    | 12 ns/ft           |

#### High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACR [dB] | Min. PSACR [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Min. SRL (Structural Return Loss) [dB] | Max./Min. Input Impedance (unFitted) [Ohm] | Max./Min. Fitted Impedance [Ohm] |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|----------------------------------------|--------------------------------------------|----------------------------------|
| 1               | 2.5 dB/100m                       | 65.3           | 62.3             | 62.8          | 59.8            | 63.8                    | 60.8                        | 20                         | 23                                     | 100 ± 15                                   | 100 ± 15                         |
| 4               | 4.9 dB/100m                       | 56.3           | 53.3             | 51.4          | 48.4            | 51.7                    | 48.7                        | 23                         | 23                                     | 100 ± 15                                   | 100 ± 15                         |
| 8               | 6.9 dB/100m                       | 51.8           | 48.8             | 44.9          | 41.9            | 45.7                    | 42.7                        | 24.5                       | 24.5                                   | 100 ± 15                                   | 100 ± 15                         |
| 10              | 7.8 dB/100m                       | 50.3           | 47.3             | 42.5          | 39.5            | 43.8                    | 40.8                        | 25                         | 25                                     | 100 ± 15                                   | 100 ± 15                         |
| 16              | 9.9 dB/100m                       | 47.3           | 44.3             | 37.4          | 34.4            | 39.7                    | 36.7                        | 25                         | 25                                     | 100 ± 15                                   | 100 ± 15                         |
| 20              | 11.1 dB/100m                      | 45.8           | 42.8             | 34.7          | 31.7            | 37.7                    | 34.7                        | 25                         | 25                                     | 100 ± 15                                   | 100 ± 15                         |
| 25              | 12.5 dB/100m                      | 44.3           | 41.3             | 21.8          | 28.8            | 35.8                    | 32.8                        | 24.3                       | 24.3                                   | 100 ± 15                                   | 100 ± 15                         |
| 31.25           | 14.1 dB/100m                      | 42.9           | 39.9             | 28.8          | 25.8            | 33.9                    | 30.9                        | 23.6                       | 23.6                                   | 100 ± 15                                   | 100 ± 15                         |
| 62.5            | 20.4 dB/100m                      | 38.4           | 35.4             | 18            | 15              | 27.8                    | 24.8                        | 21.5                       | 21.5                                   | 100 ± 15                                   | 100 ± 15                         |
| 100             | 26.4 dB/100m                      | 35.3           | 32.3             | 8.9           | 5.9             | 23.8                    | 20.8                        | 20.1                       | 20.1                                   | 100 ± 15                                   |                                  |
| 155             | 33.7 dB/100m                      | 32.5           | 29.5             |               |                 | 19.9                    | 16.9                        | 15.8                       |                                        | 100 ± 25                                   |                                  |

|     |              |      |      |  |  |      |      |    |  |          |  |
|-----|--------------|------|------|--|--|------|------|----|--|----------|--|
| 200 | 38.9 dB/100m | 30.8 | 27.8 |  |  | 17.7 | 14.7 | 15 |  | 100 ± 25 |  |
|-----|--------------|------|------|--|--|------|------|----|--|----------|--|

Voltage

| UL Voltage Rating                |
|----------------------------------|
| 300 V (CMR), 300 V (CMX-Outdoor) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating      | Installation   | Storage        |
|----------------|----------------|----------------|----------------|
| 60°C           | -40°C To +75°C | -25°C To +75°C | -40°C To +85°C |

Bend Radius

| Stationary Min.    |
|--------------------|
| 0.960 in (24.4 mm) |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 25 lbs (11 kg) |
| Bulk Cable Weight: | 26 lbs/1000ft  |

Standards and Compliance

|                                       |                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:            | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Oil Resistance                                                                                |
| Flammability / Reaction to Fire:      | UL1666 Riser, FT4, IEC 60332-1-2                                                                                                                    |
| CPR Compliance:                       | CPR Euroclass: Eca                                                                                                                                  |
| NEC / UL Compliance:                  | Article 800, CMR, CMX-Outdoor                                                                                                                       |
| CEC / C(UL) Compliance:               | CMR                                                                                                                                                 |
| ICEA Compliance:                      | S-90-661                                                                                                                                            |
| NEMA Compliance:                      | NEMA WC-63.1                                                                                                                                        |
| Data Category:                        | Category 5e                                                                                                                                         |
| TIA/EIA Compliance:                   | ANSI/TIA-568.2-D Category 5e                                                                                                                        |
| Third Party Performance Verification: | Category 5e Patch                                                                                                                                   |
| ISO/IEC Compliance:                   | ISO/IEC 11801-1, IEC 61156-6                                                                                                                        |
| European Directive Compliance:        | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16 |
| UK Regulation Compliance:             | UKCA Mark                                                                                                                                           |
| APAC Compliance:                      | China RoHS II (GB/T 26572-2011)                                                                                                                     |

Product Notes

|        |                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------|
| Notes: | Operating temperatures are subject to length de-rating. Cable passes -25C Cold Bend per UL 1581. |
|--------|--------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.534 Revision Date: 02-20-2026 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | Putup Type | Length   | UPC          | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 7930A 0101000 | Black | Reel       | 1,000 ft | 612825191575 | C        |
| 7930A 0102000 | Black | Reel       | 2,000 ft | 612825191582 | C        |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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