# Product: 127903A

DataTuff® 5e, 4Pr #22 Sol BC, PO Ins, OS, PVC Jkt, AIA Armor, PVC Jkt, PLTC CMR

## Product Description

Industrial Ethernet Cat 5e, 4 Pair 22AWG (Solid) Bare Copper, PO Insulation, Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, PLTC CMR

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc. exposure to rodent, crush, or cut through force, power-limited tray, |

### Construction Details

**Conductor**

| Size | Stranding | Material | No. of Pairs |
|---|---|---|---|
| 22 | Solid | 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 |

| | |
|---|---|
| Bonded-Pair: | Yes |

**Inner Shield**

| Shield Type | Material | Coverage | Drainwire Type |
|---|---|---|---|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 22 AWG (7x30) TC |

**Inner Jacket**

| Material | Nom. Diameter |
|---|---|
| PVC - Polyvinyl Chloride | 0.335 in (8.51 mm) |

**Armor**

| Armor Type & Material | Armor Thickness | Diameter Over Armor |
|---|---|---|
| AIA - Aluminum Interlock Armor | 0.025 in (0.64 mm) | 0.565 in (14.4 mm) |

**Outer Jacket**

| Separator | Material | Nom. Diameter |
|---|---|---|
| Polyester Tape | PVC - Polyvinyl Chloride | 0.655 in (16.6 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.655 in (16.6 mm) |

### Electrical Characteristics

**Electricals**

| Max. Conductor DCR |
|---|
| 93.8 Ohm/km (28.6 Ohm/1000ft) |

**Delay**

| Nom. Velocity of Prop. |
|---|
| 70% |

**High Frequency**

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|---|---|
| 1 | 2 dB/100m |
| 4 | 4.1 dB/100m |
| 8 | 5.8 dB/100m |
| 10 | 6.5 dB/100m |
| 16 | 8.2 dB/100m |
| 20 | 9.3 dB/100m |
| 25 | 10.4 dB/100m |
| 31.25 | 11.7 dB/100m |
| 62.5 | 17 dB/100m |
| 100 | 22 dB/100m |
| 155 | 28.1 dB/100m |
| 200 | 32 dB/100m |
| 250 | 36.9 dB/100m |
| 300 | 41.0 dB/100m |
| 310 | 41.8 dB/100m |
| 350 | 44.9 dB/100m |

**Voltage**

| UL Voltage Rating |
|---|
| 300 V (CMR) |

## Mechanical Characteristics

**Temperature**

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

**Bend Radius**

| Stationary Min. |
|---|
| 7.86 in (200 mm) |

| | |
|---|---|
| Max. Pull Tension: | 200 lbs (91 kg) |
| Bulk Cable Weight: | 157 lbs/1000ft |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Riser, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | UL 1666 Riser |
| NEC / UL Compliance: | CMR, PLTC |
| CEC / C(UL) Compliance: | CMR |
| Data Category: | Category 5e |
| TIA/EIA Compliance: | ANSI/TIA-568.2-D Category 5e |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.168 Revision Date: 04-14-2023 |

## Part Numbers

**Variants**

| Item # | UPC |
|---|---|
| 127903A 0101000 | 612825439073 |
| 127903A 0105000 | 612825439080 |

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