



Product: [183079A](#)

Profibus, 1 Pr #22 Sol BC, PE Ins, OS+TC Brd, PVC jkt, CCA, PVC Jkt, PLTC CMG Profibus DP

Request Sample

Product Description

Profibus, 1 Pair 22AWG (Solid) Bare Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Inner Jacket, Continuously Corrugated Aluminum Armor, PVC Outer Jacket, PLTC CMG SUN RES Profibus DP

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | exposure to rodent, crush, or cut through force, harsh environment, outdoors, data transmission applications such as Profibus DP or PA, Instrumentation and computer cable, etc. exposure to temperature extremes, humidity/moisture, dust, and oil. |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|------------------|
| Pair(s) | 1 | 22 AWG | Solid | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code | Notes |
|---------|--------------------------|--------------------|--------------------------|-------------|-------------------------------|
| Pair(s) | PE - Polyethylene (Foam) | 0.035 in (0.89 mm) | 0.099 in (2.5 mm) | Red & Green | Flame Retardant, Foam w/ skin |

Outer Shield

| Shield Type | Material | Coverage |
|-------------|-------------------------|----------|
| Tape | Bi-Laminate (Alum+Poly) | 100% |
| Braid | Tinned Copper (TC) | 65% |

Inner Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.043 in (1.1 mm) | 0.315 in (8.00 mm) |

Armor

| Armor Type & Material |
|--|
| CCA - Continuously Corrugated Aluminum Armor |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.055 in (1.4 mm) | 0.665 in (16.9 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.665 in (16.9 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|---------|---------------------------|-------------------------------|------------------------|------------------------|
| Pair(s) | 16 Ohm/1000ft (52 Ohm/km) | 150 Ohm | 78% | 2.3 Amps per Conductor |

| | |
|------------------------|----------------------------|
| Nom. Outer Shield DCR: | 3.9 Ohm/1000ft (13 Ohm/km) |
|------------------------|----------------------------|

High Frequency (Nominal/Typical)

| Element | Frequency [MHz] | Nom. Insertion Loss (Attenuation) |
|---------|-----------------|-----------------------------------|
|---------|-----------------|-----------------------------------|

| | | |
|---------|-----|---------------|
| Pair(s) | 0.2 | 0.27 dB/100ft |
| | 4 | 0.67 dB/100ft |
| | 16 | 1.37 dB/100ft |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 0.2 | 1.1 dB/100m |
| 4 | 2.65 dB/100m |
| 16 | 5.4 dB/100m |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMG, PLTC) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|----------------|
| 60°C | -30°C to +60°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.5 in (64 mm) | 2.5 in |

| | |
|--------------------|----------------------------|
| Max. Pull Tension: | 50 lbs (23 kg) |
| Bulk Cable Weight: | 170 lbs/1000ft (250 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, 1202, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 725, Article 800, CMG, PLTC |
| CEC / C(UL) Compliance: | CMG |
| 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) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

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| Update and Revision: | Revision Number: 0.257 Revision Date: 05-31-2024 |
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