



Product: [3079E](#)

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

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Product Description

Profibus, 1 Pair 22AWG (7x30) Bare Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Outer Jacket, PLTC CMG SUN RES Profibus DP

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | 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 | Number of Element | Size | Stranding | Material |
|---------|-------------------|--------|-----------|------------------|
| Pair(s) | 1 | 22 AWG | 7x30 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code | Notes |
|---------|--------------------------|--------------------|-------------|-------------------------------|
| Pair(s) | PE - Polyethylene (Foam) | 0.035 in (0.89 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% |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.043 in (1.1 mm) | 0.314 in (7.98 mm) |

| | |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.314 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

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

| | |
|------------------------|----------------|
| Nom. Outer Shield DCR: | 3.9 Ohm/1000ft |
|------------------------|----------------|

High Frequency (Nominal/Typical)

| Element |
|---------|
| Pair(s) |

High Frequency

| Max. Insertion Loss (Attenuation) |
|-----------------------------------|
| 0.51 dB/100m |
| 1.57 dB/100m |
| 4.8 dB/100m |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|----------------|
| 60°C | -30°C to +75°C |

Bend Radius

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

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Sunlight Resistance |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, FT4, 1202, IEC 60332-1-2 |
| NEC / UL Compliance: | Article 725, Article 800, CMG, PLTC |
| CEC / C(UL) Compliance: | CMG |
| CPR Euroclass: | Eca |
| 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

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| Update and Revision: | Revision Number: 0.373 Revision Date: 12-15-2021 |
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