



Product: [3079A](#)

Profibus, 1 Pr #22 Sol BC, PE Ins, OS+TC Brd, 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 Outer Jacket, PLTC CMG AWM 20201 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 | Solid     | 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) | 0.315 in (8.00 mm) |

Cable Diameter (Nominal):

0.315 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 | Frequency [MHz] | Nom. Insertion Loss |
|---------|-----------------|---------------------|
| Pair(s) | 0.2 MHz         | 0.27 dB/100ft       |
|         | 4 MHz           | 0.67 dB/100ft       |
|         | 16 MHz          | 1.37 dB/100ft       |

High Frequency

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

|        |             |
|--------|-------------|
| 16 MHz | 5.4 dB/100m |
|--------|-------------|

Voltage

| UL Voltage Rating                       |
|-----------------------------------------|
| 300 V (CMG, PLTC), 600 V (UL AWM 20201) |

Mechanical Characteristics

Temperature

| UL Temperature      | Operating      |
|---------------------|----------------|
| 75°C (UL AWM 20201) | -30°C to +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.4 in (61 mm)  | 2.4 in            |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 50 lbs        |
| Bulk Cable Weight: | 52 lbs/1000ft |

Standards and Compliance

|                                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:      | Indoor, Sunlight Resistance                                                                                               |
| Flammability / Fire Resistance: | UL1685 FT4 Loading, FT4, 1202, IEC 60332-1-2                                                                              |
| NEC / UL Compliance:            | Article 725, Article 800, CMG, PLTC                                                                                       |
| AWM Compliance:                 | 20201                                                                                                                     |
| 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) |

Product Notes

|        |                                                                                                                                             |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | Siemens Sinec L2 Cable. For CPE jacketed version order Part No. YR45047. For LSZH (FRNC) jacketed version, order Part No. 3079T or YR44731. |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.402 Revision Date: 10-13-2021 |
|----------------------|--------------------------------------------------|

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