



Product: [1327A](#)

Fieldbus, 2 Pr #18 Str TC, PO Ins, IS/OS, PVC Jkt, CMG

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Product Description

Fieldbus, 2 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, CMG

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc. |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|---------|-------------------|------|-----------|--------------------|
| Pair(s) | 2 | 18 | 7x26 | TC - Tinned Copper |

Insulation

| Material | Color Code |
|--------------------|---------------------------|
| PP - Polypropylene | Blue, Orange and Numbered |

Inner Shield

| Shield Type | Material | Coverage |
|-------------|-------------------------|----------|
| Tape | Bi-Laminate (Alum+Poly) | 100% |

Outer Shield

| Shield Type | Material | Coverage |
|-------------|-------------------------|----------|
| Tape | Bi-Laminate (Alum+Poly) | 100% |

Outer Jacket

| Material | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.44 in |

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Capacitance Unbalance | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|-------------------------------|----------------------------|---------------------------------|-------------------------------|------------------------|------------------------|
| 5.86 Ohm/1000ft (19.2 Ohm/km) | 1.2 pF/ft (3.9 pF/m) | 45 pF/ft | 100 Ohm | 66% | 5.2 Amps per Conductor |

| | |
|------------------------|----------------------------|
| Nom. Outer Shield DCR: | 4.9 Ohm/1000ft (16 Ohm/km) |
|------------------------|----------------------------|

High Frequency (Nominal/Typical)

| Nom. Insertion Loss (Attenuation) |
|-----------------------------------|
| 0.08 dB/100ft |

High Frequency

| Max. Insertion Loss (Attenuation) | Max./Min. Input Impedance (unFitted) |
|-----------------------------------|--------------------------------------|
| 0.091 dB/100ft | 100 Ohm |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 105°C | -40°C to +105°C |

| | |
|--------------------|---------------------------|
| Max. Pull Tension: | 137 lbs (62.1 kg) |
| Bulk Cable Weight: | 90 lbs/1000ft (130 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, 1202, IEC 60332-3-24 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 725, Article 727, Article 800, CMG, CMX-Outdoor, ITC, PLTC-ER |
| 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 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.547 Revision Date: 05-03-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------------|------------|----------|--------------|
| 1327A 0061000 | Blue, Light | Reel | 1,000 ft | 612825112020 |
| 1327A 0031000 | Orange | Reel | 1,000 ft | 612825112013 |

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