



Product: [9556](#)

High Perform Instr, 6 Pr #18 Str TC, PVC Ins E2, OS, PVC Jkt, PLTC-ER

Request Sample

Product Description

High Performance Instrumentation, 6 Pair 18AWG (19x30) Tinned Copper, PVC Insulation E2 Color Code, Overall Beldfoil® Shield, PVC Outer Jacket, PLTC-ER

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Instrumentation, Sensors, Valves, Positioners, 4-20mA, 0-10V |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | AWG | Stranding | Material |
|---------|-------------------|-----|-----------|--------------------|
| Pair(s) | 6 | 18 | 19x30 | TC - Tinned Copper |

Insulation

| Element | Material | Thickness | Color Code |
|---------|--------------------------|--------------------|-------------------------|
| Pair(s) | PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | Black, Red and Numbered |

Outer Shield Material

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 18 AWG (7x26) TC |

Outer Jacket Material

| Material | Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.053 in (1.3 mm) | 0.512 in | Yes |

| | |
|---------------------------|--------------------|
| Cable Diameter (Nominal): | 0.512 in (13.0 mm) |
|---------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield | Max. Current |
|---------|----------------------------|-------------------------------|---------------------------------|--------------------------------|
| Pair(s) | 6.0 Ohm/1000ft (20 Ohm/km) | 35 pF/ft (110 pF/m) | 54 pF/ft (180 pF/m) | 4.5 Amps per Conductor at 25°C |

| | |
|------------------------|--------------|
| Nom. Outer Shield DCR: | 9 Ohm/1000ft |
|------------------------|--------------|

Voltage

| UL Voltage Rating |
|--------------------------------|
| 300 V (PLTC, CMG), 150 V (ITC) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|-----------------|
| 105°C | -30°C to +105°C |

| | |
|--------------|----------|
| Table Notes: | AWM 80°C |
|--------------|----------|

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 5.1 in (130 mm) | 5.1 in (130 mm) |

| | |
|--------------------|------------------|
| Max. Pull Tension: | 319 lbs (145 kg) |
| Bulk Cable Weight: | 145 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial |
| Flammability / Fire Resistance: | UL1685 FT4 Loading, FT4, T-29-520, 1202 |
| NEC / UL Compliance: | Article 725, Article 727, Article 800, CMG, ITC-ER, PLTC-ER |
| AWM Compliance: | 2464 |
| 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) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

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| Update and Revision: | Revision Number: 0.378 Revision Date: 06-08-2021 |
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