



Product: [9316](#)

High Perform Instr, 1 Pr #16 Str TC, PVC Ins E2, OS, PVC Jkt, PLTC-ER

Request Sample

Product Description

High Performance Instrumentation, 1 Pair 16AWG (19x29) 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 | Size   | Stranding | Material           |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 1                 | 16 AWG | 19x29     | TC - Tinned Copper |

Insulation

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

Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type    |
|-------------|-------------------------|----------|-------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 18 AWG (19x30) TC |

Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      | Ripcord |
|--------------------------|--------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.037 in (0.94 mm) | 0.264 in (6.71 mm) | Yes     |

|                           |                    |
|---------------------------|--------------------|
| Cable Diameter (Nominal): | 0.264 in (6.71 mm) |
|---------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR         | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) |
|---------|----------------------------|-------------------------------|-------------------------------------------------|
| Pair(s) | 4.2 Ohm/1000ft (14 Ohm/km) | 68 pF/ft (220 pF/m)           | 121 pF/ft (397 pF/m)                            |

Voltage

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

Mechanical Characteristics

Temperature

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

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|-----------------|-------------------|

|                |                |
|----------------|----------------|
| 2.6 in (66 mm) | 2.6 in (66 mm) |
|----------------|----------------|

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 105 lbs       |
| Bulk Cable Weight: | 41 lbs/1000ft |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Sunlight Resistance                                                                               |
| Flammability / Reaction to Fire: | 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

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.373 Revision Date: 10-27-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #        | Color  | Putup Type | Length    | UPC          |
|---------------|--------|------------|-----------|--------------|
| 9316 060U500  | Chrome | UnReel     | 500 ft    | 612825228356 |
| 9316 0601000  | Chrome | Reel       | 1,000 ft  | 612825228363 |
| 9316 060U1000 | Chrome | UnReel     | 1,000 ft  | 612825228349 |
| 9316 0605000  | Chrome | Reel       | 5,000 ft  | 612825228387 |
| 9316 06010000 | Chrome | Reel       | 10,000 ft | 612825228370 |

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