



REPRESENTATIVE IMAGE

Product: [83703](#)

Electronic, 3 C #16 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

Request Sample

Product Description

High Temperature Electronic, 3 Conductor 16AWG (19x29) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, FEP Outer Jacket, CMP

Technical Specifications

Product Overview

|                        |                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Construction Details

Conductor

| Element      | Number of Element | Size   | Stranding | Material           |
|--------------|-------------------|--------|-----------|--------------------|
| Conductor(s) | 3                 | 16 AWG | 19x29     | TC - Tinned Copper |

Insulation

| Element      | Material                             | Nom. Thickness     | Color Code        |
|--------------|--------------------------------------|--------------------|-------------------|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.007 in (0.18 mm) | Black, White, Red |

Outer Shield

| Shield Type | Material                | Coverage |
|-------------|-------------------------|----------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     |
| Braid       | Tinned Copper (TC)      | 85%      |

Outer Jacket

| Material                             | Nom. Thickness     | Nom. Diameter      |
|--------------------------------------|--------------------|--------------------|
| FEP - Fluorinated Ethylene Propylene | 0.014 in (0.36 mm) | 0.206 in (5.23 mm) |

|                           |                    |
|---------------------------|--------------------|
| Cable Diameter (Nominal): | 0.206 in (5.23 mm) |
|---------------------------|--------------------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR            | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
|--------------|-------------------------------|-------------------------------|-------------------------------------------------|--------------------------------|
| Conductor(s) | 4.43 Ohm/1000ft (14.5 Ohm/km) | 35 pF/ft (110 pF/m)           | 63 pF/ft (210 pF/m)                             | 6.4 Amps per Conductor at 25°C |

Voltage

UL Voltage Rating

300 V (CMP)

Mechanical Characteristics

Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 150°C          | -70°C to +200°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.1 in (53 mm)  | 2.1 in (53 mm)    |

|                    |                          |
|--------------------|--------------------------|
| Max. Pull Tension: | 91 lbs (41 kg)           |
| Bulk Cable Weight: | 46 lbs/1000ft (68 kg/km) |

Standards and Compliance

|                                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:      | Indoor, Outdoor, Oil Resistance, Burial                                                                                   |
| Sustainability:                 | CA Prop 65                                                                                                                |
| Flammability / Fire Resistance: | NFPA 262 Plenum Flame Test (UL910)(FT6), FT6, IEC 60332-1-2                                                               |
| NEC / UL Compliance:            | Article 800, CMP                                                                                                          |
| CEC / C(UL) Compliance:         | CMP                                                                                                                       |
| 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)                                                                                           |

Product Notes

|        |               |
|--------|---------------|
| Notes: | Gas Resistant |
|--------|---------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.352 Revision Date: 10-13-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 83703 002500  | Red   | Reel       | 500 ft   | 612825205517 |
| 83703 0021000 | Red   | Reel       | 1,000 ft | 612825205500 |

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