



REPRESENTATIVE IMAGE

**Product:** [83702](#)

Electronic, 2 C #16 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

[Request Sample](#)

## Product Description

High Temperature Electronic, 2 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 | AWG | Stranding | Material           |
|--------------|-------------------|-----|-----------|--------------------|
| Conductor(s) | 2                 | 16  | 19x29     | TC - Tinned Copper |

#### Insulation

| Element      | Material                             | Thickness [in] | Color Code   |
|--------------|--------------------------------------|----------------|--------------|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.007          | Black, White |

#### Outer Shield Material

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

#### Outer Jacket Material

| Material                             | Thickness | Diameter |
|--------------------------------------|-----------|----------|
| FEP - Fluorinated Ethylene Propylene | 0.014 in  | 0.196 in |

### 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    | 35 pF/ft                      | 63 pF/ft                                        | 6.4 Amps per Conductor at 25°C |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP)       |

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

| Stationary Min. |
|-----------------|
| 2 in            |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 105 lbs       |
| Bulk Cable Weight: | 37 lbs/1000ft |

Standards and Compliance

|                                 |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Environmental Suitability:      | Outdoor, Oil Resistance, Burial                                                                         |
| Sustainability:                 | CA Prop 65                                                                                              |
| Flammability / Fire Resistance: | NFPA 262, FT6, IEC 60332-1-2                                                                            |
| NEC / UL Compliance:            | Article 800, CMP                                                                                        |
| CEC / C(UL) Compliance:         | CMP                                                                                                     |
| CPR Euroclass:                  | Eca                                                                                                     |
| European Directive Compliance:  | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), 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: 0.314 Revision Date: 06-18-2020 |
|----------------------|--------------------------------------------------|

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