


**Product: [83719](#)**

Electronic, 19 C #16 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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**Product Description**

High Temperature Electronic, 19 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      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 19              | 16 AWG | 19x29     | TC - Tinned Copper |

**Insulation**

| Element      | Material                             | Nom. Thickness     | Nom. Insulation Diameter | Color Code  |
|--------------|--------------------------------------|--------------------|--------------------------|---|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.007 in (0.18 mm) | 0.069 in (1.8 mm)        | Black, White, Red, Green, Orange, Blue, White/Black Stripe, Red/Black Stripe, Green/Black Stripe, Orange/Black Stripe, Blue/Black Stripe, Black/White Stripe, Red/White Stripe, Green/White Stripe, Blue/White Stripe, Black/Red Stripe, White/Red Stripe, Orange/Red Stripe, Blue/Red Stripe |

**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 | 0.025 in (0.64 mm) | 0.425 in (10.8 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.425 in (10.8 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    | 35 pF/ft (110 pF/m)           | 63 pF/ft (210 pF/m)                             | 3.2 Amps per Conductor at 25°C |

Nom Outer Shield DCR: 2.67 Ohm/1000ft (8.76 Ohm/km)

**Voltage**

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

**Mechanical Characteristics**
**Temperature**

| UL Temperature | Operating |
|----------------|-----------|
|                |           |

150°C

-70°C to +200°C

**Bend Radius**

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.0 in (100 mm) | 4.0 in (100 mm)   |

Max. Pull Tension: 834 lbs (378 kg)

Bulk Cable Weight: 218 lbs/1000ft

**Standards and Compliance**

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor, Outdoor, Oil Resistance, Burial  |
| Sustainability:                  | CA Prop 65   |
| Flammability / Reaction to Fire: | NFPA 262 (UL 910), FT6, IEC 60332-1-2  |
| CPR Compliance:                  | CPR Euroclass: Eca   |
| 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), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance:        | UKCA Mark  |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)  |

**Product Notes**

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

**History**

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.514 Revision Date: 09-07-2025 |
|----------------------|--|

**Part Numbers****Variants**

| Item #        | Color | Putup Type | Length   | UPC          | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 83719 002100  | Red   | Reel       | 100 ft   | 612825205630 | C        |
| 83719 002500  | Red   | Reel       | 500 ft   | 612825205654 | C        |
| 83719 0021000 | Red   | Reel       | 1,000 ft | 612825205647 | C        |

Footnote: C - CRATE REEL PUT-UP.

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