



REPRESENTATIVE IMAGE

**Product:** [83659](#)

Electronic, 9 C #18 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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**Product Description**

High Temperature Electronic, 9 Conductor 18AWG (19x30) 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) | 9                 | 18  | 19x30     | TC - Tinned Copper |

**Insulation**

| Element      | Material                             | Thickness [in.] | Color Code   |
|--------------|--------------------------------------|-----------------|--|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.007           | Black, White, Red, Green, Orange, Blue, White/Black Stripe, Red/Black Stripe, Green/Black Stripe |

**Outer Shield Material**

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

**Outer Jacket Material**

| Material                             | Thickness | Nom. Diameter |
|--------------------------------------|-----------|---------------|
| FEP - Fluorinated Ethylene Propylene | 0.015 in  | 0.265 in      |

Cable Diameter (Nominal): 0.265 in

**Electrical Characteristics**

**Electricals**

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
|--------------|--------------------|-------------------------------|---|--------------------------------|
| Conductor(s) | 5.8 Ohm/1000ft     | 33 pF/ft                      | 60 pF/ft  | 3.8 Amps per Conductor at 25°C |

Nom Outer Shield DCR: 2.7 Ohm/1000ft

**Voltage**

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

**Mechanical Characteristics**

**Temperature**

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

**Bend Radius**

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.75 in         | 2.7 in            |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 216 lbs       |
| Bulk Cable Weight: | 81 lbs/1000ft |

## Standards and Compliance

|                                 |   |
|---------------------------------|---|
| Environmental Suitability:      | Indoor, 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 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: 0.332 Revision Date: 08-25-2020 |
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