



REPRESENTATIVE IMAGE

Product: [83706](#)

Electronic, 6 C #16 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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Product Description

High Temperature Electronic, 6 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) | 6 | 16 | 19x29 | TC - Tinned Copper |

Insulation

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

Outer Shield Material

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

Outer Jacket Material

| Material | Thickness | Nom. Diameter |
|--------------------------------------|-----------|---------------|
| FEP - Fluorinated Ethylene Propylene | 0.014 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) | 4.43 Ohm/1000ft | 35 pF/ft | 63 pF/ft | 4.5 Amps per Conductor at 25°C |

Nom Outer Shield DCR: 2.67 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: | 182 lbs |
| Bulk Cable Weight: | 82 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 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

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|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.345 Revision Date: 09-30-2020 |
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