



REPRESENTATIVE IMAGE

Product: [85241](#)

Electronic, 3 C #16 Str TC, ETFE Ins, OS, ETFE Jkt

[Request Sample](#)

Product Description

High Temperature Electronic, 3 Conductor 16AWG (19x29) Tinned Copper, ETFE Insulation, Overall Beldfoil® Shield, ETFE Outer Jacket

Technical Specifications

Product Overview

| | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | extreme high/low temperature environments; chemical resistant; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); instrumentation |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

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) | ETFE - Ethylene Tetrafluoroethylene | 0.014 in (0.36 mm) | Black, Red, Green |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|----------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Kapton®) | 100% | 18 AWG (7x26) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|-------------------------------------|--------------------|--------------------|
| ETFE - Ethylene Tetrafluoroethylene | 0.020 in (0.51 mm) | 0.225 in (5.72 mm) |

Overall Cable Diameter (Nominal): 0.225 in (5.72 mm)

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------|-------------------------------|-------------------------------|-------------------------------------------------|------------------------------|
| Conductor(s) | 4.27 Ohm/1000ft (14.0 Ohm/km) | 34 pF/ft (110 pF/m) | 61.2 pF/ft (201 pF/m) | 7 Amps per Conductor at 25°C |

Voltage

| Voltage Rating |
|----------------|
| 350 V |

Mechanical Characteristics

Temperature

| Operating |
|-----------------|
| -60°C to +150°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.3 in (58 mm) | 2.3 in (58 mm) |

Max. Pull Tension: 142 lbs (64.4 kg)

| | |
|--------------------|--------------------------|
| Bulk Cable Weight: | 45 lbs/1000ft (67 kg/km) |
|--------------------|--------------------------|

Standards and Compliance

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability: | Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 (UL Loading), IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| 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: | Tefzel and Kapton are DuPont trademarks. |
|--------|------------------------------------------|

History

| | |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.360 Revision Date: 12-15-2021 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|--------------------|------------|----------|--------------|
| 85241 3681000 | Clear, Transparent | Reel | 1,000 ft | 612825212416 |

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