



Product: [85109](#)

Electronic, 9 C #16 Str TC, ETFE Ins, ETFE Jkt

Request Sample

**Product Description**

High Temperature Electronic, 9 Conductor 16AWG (19x29) Tinned Copper, ETFE Insulation, 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      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 9               | 16 AWG | 19x29     | TC - Tinned Copper |

Insulation

| Element      | Material                            | Nom. Thickness       | Nom. Insulation Diameter | Color Code  |
|--------------|-------------------------------------|----------------------|--------------------------|---|
| Conductor(s) | ETFE - Ethylene Tetrafluoroethylene | 0.0135 in (0.343 mm) | 0.082 in (2.1 mm)        | Black, White, Red, Green, Orange, Blue, White/Black, Red/Black, Green/Black |

Outer Shield

| Material  |
|-----------|
| No Shield |

Outer Jacket

| Material                            | Nom. Thickness     | Nom. Diameter |
|-------------------------------------|--------------------|---------------|
| ETFE - Ethylene Tetrafluoroethylene | 0.024 in (0.61 mm) | 0.354 in      |

Overall Cable Diameter (Nominal): 0.354 in.

Electrical Characteristics

| Electricals        |                                |
|--------------------|--------------------------------|
| Nom. Conductor DCR | Max. Current                   |
| 4.76 Ohm/1000ft    | 8.5 Amps per Conductor at 25°C |

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

Mechanical Characteristics

|                 |  |
|-----------------|--|
| Temperature     |  |
| Operating       |  |
| -60°C To +150°C |  |

| Bend Radius       |                   |
|-------------------|-------------------|
| Stationary Min.   | Installation Min. |
| 3.54 in (89.9 mm) | 3.54 in           |

|                    |                  |
|--------------------|------------------|
| Max. Pull Tension: | 360 lbs (160 kg) |
|--------------------|------------------|

|                    |                |
|--------------------|----------------|
| Bulk Cable Weight: | 111 lbs/1000ft |
|--------------------|----------------|

Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor  |
| Flammability / Reaction to Fire: | VW-1  |
| 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 is a trademark of Dupont. |
|--------|----------------------------------|

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.344 Revision Date: 05-05-2023 |
|----------------------|--|

Part Numbers

Variants

| Item #        | Color              | Putup Type | Length   | UPC          | Footnote |
|---------------|--------------------|------------|----------|--------------|----------|
| 85109 3681000 | Clear, Transparent | Reel       | 1,000 ft | 612825210610 | C        |

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