



Product: [85103](#)

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

 [Request Sample](#)

Product Description

High Temperature Electronic, 3 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 |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 16 | 19x29 | TC - Tinned Copper | 3 |

Conductor Count: 3

Insulation

| Material | Material Trade Name | Nominal Wall Thickness |
|-------------------------------------|---------------------|------------------------|
| ETFE - Ethylene Tetrafluoroethylene | Tefzel® | 0.0135 in |

Color Chart

| Number | Color |
|--------|-------|
| 1 | Black |
| 2 | White |
| 3 | Red |

Outer Shield Material

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

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------------|---------------------|------------------|------------------------|
| ETFE - Ethylene Tetrafluoroethylene | Tefzel® | 0.223 in | 0.019 in |

Electrical Characteristics

Conductor DCR

| |
|-----------------------|
| Nominal Conductor DCR |
| 4.76 Ohm/1000ft |

Inductance

| |
|--------------------|
| Nominal Inductance |
| 0.17 μ H/ft |

Current

| |
|--------------------------------|
| Max. Recommended Current [A] |
| 9.5 Amps per Conductor at 25°C |

Voltage

Non-UL Voltage Rating

300 V RMS

Temperature Range

| | |
|-----------------------|-----------------|
| Non-UL Temp Rating: | 150°C |
| Operating Temp Range: | -60°C To +150°C |

Mechanical Characteristics

| | |
|-----------------------------|---------------|
| Bulk Cable Weight: | 40 lbs/1000ft |
| Max. Pull Tension: | 91 lbs |
| Min Bend Radius/Minor Axis: | 2.25 in |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01 |
| MII Order #39 (China RoHS): | Yes |

Flammability, LS0H, Toxicity Testing

| | |
|------------------|------|
| UL Flammability: | VW-1 |
|------------------|------|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|--------------------|------------|----------|--------------|
| 85103 3681000 | Clear, Transparent | Reel | 1,000 ft | 612825210603 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

| | |
|--------|----------------------------------|
| Notes: | Tefzel is a trademark of Dupont. |
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History

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| Update and Revision: | Revision Number: 0.283 Revision Date: 06-08-2020 |
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