



Product: [83719](#)

Electronic, 19 C #16 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

Request Sample

Product Description

High Temperature Electronic, 19 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

Physical Characteristics (Overall)

Conductor

| Element      | AWG | Stranding | Material           | No. of Conductors |
|--------------|-----|-----------|--------------------|-------------------|
| Conductor(s) | 16  | 19x29     | TC - Tinned Copper | 19                |

Conductor Count:

19

Insulation

| Element      | Material                             | Material Trade Name | Nominal Wall Thickness |
|--------------|--------------------------------------|---------------------|------------------------|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | Teflon®             | 0.007 in               |

Color Chart

| Number | Color        |
|--------|--------------|
| 1      | Black        |
| 2      | White        |
| 3      | Red          |
| 4      | Green        |
| 5      | Orange       |
| 6      | Blue         |
| 7      | White/Black  |
| 8      | Red/Black    |
| 9      | Green/Black  |
| 10     | Orange/Black |
| 11     | Blue/Black   |
| 12     | Black/White  |
| 13     | Red/White    |
| 14     | Green/White  |
| 15     | Blue/White   |
| 16     | Black/Red    |
| 17     | White/Red    |
| 18     | Orange/Red   |
| 19     | Blue/Red     |

Outer Shield Material

| Type | Layer | Material    | Material Trade Name | Coverage [%] |
|------|-------|-------------|---------------------|--------------|
| Tape | 1     | Alum / Poly | Beldfoil®           | 100 %        |

|       |   |                    |  |      |
|-------|---|--------------------|--|------|
| Braid | 2 | TC - Tinned Copper |  | 85 % |
|-------|---|--------------------|--|------|

Outer Jacket Material

| Material                             | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|---------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | Teflon®             | 0.403 in         | 0.014 in               |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 4.43 Ohm/1000ft       | 2.67 Ohm/1000ft          |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 35 pF/ft                                | 63 pF/ft                                                |

Current

| Max. Recommended Current [A]  |
|-------------------------------|
| 3.2 Amps per conductor @ 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                       |                 |
|-----------------------|-----------------|
| Operating Temp Range: | -70°C To +200°C |
|-----------------------|-----------------|

Mechanical Characteristics

|                                  |                |
|----------------------------------|----------------|
| Bulk Cable Weight:               | 218 lbs/1000ft |
| Max Recommended Pulling Tension: | 577 lbs        |
| Min Bend Radius/Minor Axis:      | 4.25 in        |

Standards

|                          |     |
|--------------------------|-----|
| NEC Articles:            | 800 |
| NEC/(UL) Specification:  | CMP |
| CEC/C(UL) Specification: | CMP |
| CPR Euroclass:           | Eca |

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                    |
| CA Prop 65:                           | Yes                           |
| MII Order #39 (China RoHS):           | Yes                           |

Flammability, LS0H, Toxicity Testing

|                       |               |
|-----------------------|---------------|
| UL Flammability:      | NFPA 262      |
| CSA Flammability:     | FT6           |
| ISO/IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating:    | 300 V RMS     |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 83719 002100  | Red   | Reel       | 100 ft   | 612825205630 |
| 83719 002500  | Red   | Reel       | 500 ft   | 612825205654 |
| 83719 0021000 | Red   | Reel       | 1,000 ft | 612825205647 |

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

Product Notes

|        |                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|
| Notes: | Teflon« is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.292 Revision Date: 05-05-2020 |
|----------------------|--------------------------------------------------|

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