



Part Number: 83719

Audio/Control/Instrumentation, (19) 16 AWG (19x29) TC, FEP/FEP, Foil+TC Braid Shld, CMP

Product Description

Nineteen 16 AWG stranded (19x29) tinned copper conductors, plenum, Teflon® (FEP) insulation, overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (85% coverage), Teflon® (FEP) jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

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

| | |
|------------------|--------|
| Conductor Count: | 19 |
| Conductor Size: | 16 AWG |

Insulation

| Material | Material Trade Name | Nominal Wall Thickness |
|--------------------------------------|---------------------|------------------------|
| 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 | Aluminum Foil-Polyester Tape | 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 |
| Shielding: | Foil + Braid(s) |

Current

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

Voltage

| UL Voltage Rating |
|-------------------|
| 300V 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 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-----------|
| UL Flammability: | NFPA 262 |
| CSA Flammability: | FT6 |
| UL Voltage Rating: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Footnote |
|---------------|-------|----------|
| 83719 002100 | RED | C |
| 83719 0021000 | RED | C |
| 83719 002500 | RED | C |

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