



Part Number: 83715

Audio/Control/Instrumentation, (15) 16 AWG (19x29)
TC, FEP/FEP, Foil+TC Braid Shld, CMP

Product Description

Fifteen 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.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | No. of Conductors |
|------------------------------------|-----------|--------------------|-------------------|
| 16 | 19x29 | TC - Tinned Copper | 15 |
| Total Number of Conductors: | | | 15 |

Insulation:

| Material | Material Trade Name | Nominal Wall Thickness |
|--------------------------------------|---------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | Teflon® | 0.007 in |

Color Chart 1:

| 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 |

Outershield 1:

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|------------------------------|---------------------|--------------|
| Tape | 1 | Aluminum Foil-Polyester Tape | Beldfoil® | 100 % |
| Braid | 2 | TC - Tinned Copper | | 85 % |

Outerjacket 1:

| Material | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|---------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | Teflon® | 0.407 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] |
|-------------------------------|
| 4.5 Amps per conductor @ 25°C |

Voltage:

UL Voltage Rating

300 V RMS

Use

Max Recommended Pulling Tension: 456 lbs

Safety

CSA Flammability: FT6

Temperature Range

Operating Temp Range: -70°C To +200°C

Mechanical Characteristics

Min Bend Radius/Minor Axis: 4.25 in

Part Number

Plenum (Y/N): Yes

Standards

CA Prop 65 (CJ for Wire & Cable): CA Prop 65 (CJ for Wire & Cable)

CEC/C(UL) Specification: CEC/C(UL) Specification

MII Order #39 (China RoHS): MII Order #39 (China RoHS)

NEC/(UL) Specification: NEC/(UL) Specification

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: EU CE Mark

History

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

Product Variants

| Part Number | Color | Put-Up Type | Length |
|---------------|-------|-------------|---------|
| 83715 0021000 | RED | Reel | 1000 ft |

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