



83702 Multi-Conductor - Audio, Control and Instrumentation Cable, 2 Conductors Cabled

For more Information
please call

1-800-Belden1



General Description:

16 AWG stranded (19x29) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage) FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2 | 16 | 19x29 | TC - Tinned Copper |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Wall Thickness (mm) |
|-----------------------|--------------------------------------|---------------------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 0.1778 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 85 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material | Nom. Wall Thickness (mm) |
|-------------------------|--------------------------------------|--------------------------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 0.3556 |

Overall Cable

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 4.978 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 55.063 Kg/Km

Max. Recommended Pulling Tension: 467.061 N

Min. Bend Radius/Minor Axis: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

METRIC MEASUREMENT VERSION

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| | |
|---------------------------------------|------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MIL Order #39 (China RoHS): | Yes |

Flame Test

| | |
|-----------------|----------|
| UL Flame Test: | NFPA 262 |
| CSA Flame Test: | FT6 |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

114.835

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

206.703

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

14.5348

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.76027

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

6.4 Amps per conductor @ 25°C

Notes (Overall)

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

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-----------------|
| 83702 002100 | 100 FT | 5.200 LB | RED | C | 2#16 FEP SH FEP |
| 83702 0021000 | 1,000 FT | 40.000 LB | RED | C | 2#16 FEP SH FEP |
| 83702 0023000 | 3,000 FT | 114.000 LB | RED | C Z | 2#16 FEP SH FEP |
| 83702 002500 | 500 FT | 20.000 LB | RED | C | 2#16 FEP SH FEP |

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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