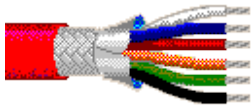


## 83559 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) 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 |
|--------------|-----|-----------|--------------------|
| 9            | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors: 9

#### Insulation

##### Insulation Material:

| Insulation Material                  | Wall Thickness (mm) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.178               |

#### 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 Material                | Nom. Wall Thickness (mm) |
|--------------------------------------|--------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.3556                   |

#### Overall Cable

##### Overall Cabling Color Code Chart:

| Number | Color       |
|--------|-------------|
| 1      | Black       |
| 2      | White       |
| 3      | Red         |
| 4      | Green       |
| 5      | Orange      |
| 6      | Blue        |
| 7      | White/Black |
| 8      | Red/Black   |
| 9      | Green/Black |

Overall Nominal Diameter: 5.309 mm

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 68.457 Kg/Km

Max. Recommended Pulling Tension: 386.993 N

Min. Bend Radius/Minor Axis: 57.150 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        |
| 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        |
| MII 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)

75.463

#### Nom. Capacitance Cond. to Other Conductor & Shield:

##### Capacitance (pF/m)

131.24

#### Nom. Conductor DC Resistance:

##### DCR @ 20°C (Ohm/km)

50.8555

#### Nominal Outer Shield DC Resistance:

##### DCR @ 20°C (Ohm/km)

12.1397

#### Max. Operating Voltage - UL:

##### Voltage

300 V RMS

#### Max. Recommended Current:

##### Current

1.9 Amps per conductor @ 25°C

### Notes (Overall)

**Notes:** Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application.

### Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc       |
|---------------|--------|-------------|-------|-------|-----------------|
| 83559 002100  | 30 MT  | 3.084 KG    | RED   |       | 9#22 FEP SH FEP |
| 83559 0021000 | 305 MT | 22.680 KG   | RED   | C     | 9#22 FEP SH FEP |
| 83559 002500  | 152 MT | 11.340 KG   | RED   | C     | 9#22 FEP SH FEP |

#### Notes:

C = CRATE REEL PUT-UP.

## 83559 Multi-Conductor - Audio, Control and Instrumentation Cable

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