

## 83653 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**Description:**

18 AWG stranded (19x30) 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 |
|--------------|-----|-----------|--------------------|
| 3            | 18  | 19x30     | TC - Tinned Copper |

Total Number of Conductors: 3

**Insulation**

Insulation Material:

| Insulation Material                  | Wall Thickness (in.) |
|--------------------------------------|----------------------|
| FEP - Fluorinated Ethylene Propylene | .007                 |

**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 (in.) |
|--------------------------------------|---------------------------|
| FEP - Fluorinated Ethylene Propylene | .014                      |

**Overall Cable**

Overall Cabling Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | White |
| 3      | Red   |

Overall Nominal Diameter: 0.180 in.

**Mechanical Characteristics (Overall)**

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

Bulk Cable Weight: 43 lbs/1000 ft.

Max. Recommended Pulling Tension: 72 lbs.

Min. Bend Radius/Minor Axis: 2 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU CE Mark: Yes

**83653 Multi-Conductor - Audio, Control and Instrumentation Cable**

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 &amp; 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. Inductance:**

Inductance (μH/ft)

.124

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

33

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

Capacitance (pF/ft)

60

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

5.8

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

3.9

**Max. Operating Voltage - UL:**

Voltage

300 V RMS

**Max. Recommended Current:**

Current

5.4 Amps per conductor @ 25°C

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc        |
|---------------|----------|-------------|-------|-------|------------------|
| 83653 002100  | 100 FT   | 5.300 LB    | RED   | C     | 3#18 FEP SH FEP  |
| 83653 0021000 | 1,000 FT | 38.000 LB   | RED   | C     | 3#18 FEP SH FEP  |
| 83653 002500  | 500 FT   | 19.000 LB   | RED   | C     | 3#18 FEP SH FEP  |
| 83653 0025000 | 5,000 FT | 180.000 LB  | RED   |       | 3 #18 FEP SH FEP |

**Notes:**

C = CRATE REEL PUT-UP.

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