



## 83553 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
3	22	7x30	TC - Tinned Copper

Total Number of Conductors: 3

#### 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

Overall Nominal Diameter: 3.759 mm

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 29.764 Kg/Km

Max. Recommended Pulling Tension: 128.998 N

Min. Bend Radius/Minor Axis: 38.100 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

METRIC MEASUREMENT VERSION

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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)

20.5719

### Max. Operating Voltage - UL:

Voltage

300 V RMS

### Max. Recommended Current:

Current

2.75 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
83553 002100	100 FT	3.500 LB	RED	C	3#22 FEP SH FEP
83553 0021000	1,000 FT	22.000 LB	RED	C	3#22 FEP SH FEP
83553 002500	500 FT	11.500 LB	RED	C	3#22 FEP SH FEP
83553 0025000	5,000 FT	105.000 LB	RED	C Z	3#22 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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