



## 83754 Multi-Conductor - Power-Limited Fire Protective, Control & Instru Cable

For more Information  
please call

1-800-Belden1



### General Description:

14 AWG stranded (7x22) TC conductors, conductors cabled, plenum, FEP insulation, Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	14	7x22	TC - Tinned Copper

Total Number of Conductors: 4

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.4064

#### 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	0.381

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green

Overall Nominal Diameter: 7.899 mm

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 200°C

Bulk Cable Weight: 145.844 Kg/Km

Max. Recommended Pulling Tension: 1201.014 N

Min. Bend Radius/Minor Axis: 82.550 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP, FPLP

NEC Articles: 760

METRIC MEASUREMENT VERSION

## 83754 Multi-Conductor - Power-Limited Fire Protective, Control & Instru Cable

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
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## Electrical Characteristics (Overall)

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
98.43

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

Capacitance (pF/m)
170.612

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
7.5463

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Recommended Current:

Current
14.4 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
83754 0021000	1,000 FT	102.000 LB	RED	C	4#14 FEP SH FEP
83754 002500	500 FT	52.500 LB	RED	C	4#14 FEP SH FEP

### Notes:

C = CRATE REEL PUT-UP.

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