

## 83802 Multi-Conductor - Power-Limited Fire Protective, Ctrl & Inst Cbl, 2 Cdrs Cbl



For more Information  
please call

1-800-Belden1



### General Description:

12 AWG stranded (7x20) 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
2	12	7x20	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

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

#### 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

Overall Nominal Diameter: 7.696 mm

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 200°C

Bulk Cable Weight: 111.615 Kg/Km

Max. Recommended Pulling Tension: 969.708 N

Min. Bend Radius/Minor Axis: 82.550 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP, FPLP

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

## METRIC MEASUREMENT VERSION

### 83802 Multi-Conductor - Power-Limited Fire Protective, Ctrl & Inst Cbl, 2 Cdrs Cbl

Mil Order #39 (China RoHS):	Yes
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#### Flame Test

UL Flame Test:	NFPA 262
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CSA Flame Test:	FT6
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#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
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#### Electrical Characteristics (Overall)

##### Nom. Inductance:

Inductance ( $\mu\text{H/m}$ )
0.495431

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
104.992

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

Capacitance (pF/m)
180.455

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
5.5777

##### Max. Operating Voltage - UL:

Voltage
300 V RMS

##### Max. Recommended Current:

Current
25 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
83802 0021000	1,000 FT	80.000 LB	RED	C	2#12 FEP SH FEP
83802 002500	500 FT	41.000 LB	RED	C	2#12 FEP SH FEP

##### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 09-07-2012

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