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1-800-Belden1



## General Description:

20 AWG stranded (19x32) silver-plated copper conductors, cabled and color-coded, extruded TFE Teflon® insulation, silver-plated copper braid shield (85% coverage), TFE teflon tape-wrapped jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	20	19x32	SPC - Silver Plated Copper

Total Number of Conductors: 4

### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	0.011

Insulation Resistance: 100,000 Megaohms/1000 ft. @ 500 V DC

### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	85

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.011

### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red
4	Green

Overall Nominal Diameter: 0.183 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -65°C To +200°C

Bulk Cable Weight: 35 lbs/1000 ft.

Max. Recommended Pulling Tension: 94.700 lbs.

Min. Bend Radius/Minor Axis: 2 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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): 01/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

## 83350E Multi-Conductor - MIL-W-16878/4 (Type E)

<b>Military Specification:</b>	MIL-W-16878/4 (Type E except stranding) (insulated conductors)
<b>Other Specification:</b>	NEMA HP3
<b>Plenum/Non-Plenum</b>	
<b>Plenum (Y/N):</b>	No

### Electrical Characteristics (Overall)

**Nom. Inductance:**

**Inductance (µH/ft)**  
 .145

**Nom. Capacitance Conductor to Conductor:**

**Capacitance (pF/ft)**  
 31.7

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

**Capacitance (pF/ft)**  
 51.0

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
 7.8

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
 4.4

**Max. Operating Voltage - UL:**

**Voltage**  
 600 V RMS

**Max. Recommended Current:**

**Current**  
 6.5 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
83350E 009100	100 FT	4.200 LB	WHITE	E	4 #20 TFE BRD TFE TAPE
83350E 0091000	1,000 FT	38.000 LB	WHITE	E	4 #20 TFE BRD TFE TAPE
83350E 009500	500 FT	19.000 LB	WHITE	E	4 #20 TFE BRD TFE TAPE

**Notes:**

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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