

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



For more Information  
please call

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

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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
MII Order #39 (China RoHS):	Yes
Military Specification:	MIL-W-16878/4 (Type E except stranding) (insulated conductors)
Other Specification:	NEMA HP3

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### 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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