



**Part Number:** 83350E

MIL-W-16878/4 (Type E), (4) 20 AWG (19x32) SPC, TFE/TFE, SPC Braid Shld

[Request Sample](#)

## Product Description

Four 20 AWG stranded (19x32) silver-plated copper conductors, Teflon® (TFE) insulation, silver plated copper braid shield (85% coverage), Teflon® (TFE) jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
20	19x32	SPCCS - Silver Plated Copper Covered Steel	4

Conductor Count:	4
Conductor Size:	20 AWG

#### Insulation

Material	Material Trade Name	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.0105 in

#### Color Chart

Number	Color
1	White
2	Black
3	Red
4	Green

#### Outer Shield Material

Type	Material	Coverage [%]
Braid	SPC - Silver Plated Copper	85 %

#### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.183 in	0.011 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
7.8 Ohm/1000ft	4.4 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
31.7 pF/ft	51 pF/ft

Shielding:	Braid(s)
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#### Inductance

Nominal Inductance
0.145 µH/ft

#### Current

Max. Recommended Current [A]
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6.5 Amps per conductor @ 25°C

## Voltage

### UL Voltage Rating

600 V RMS

## Temperature Range

Operating Temp Range: -65°C To +200°C

## Mechanical Characteristics

Bulk Cable Weight: 35 lbs/1000ft

Max Recommended Pulling Tension: 94.7 lbs

Min Bend Radius/Minor Axis: 2 in

## Standards

CPR Euroclass: Eca

Military Specification: MIL-W-16878/4 (Type E except stranding), (insulated conductors)

Other Specification: NEMA HP3

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU: Yes

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

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-01-01

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

MII Order #39 (China RoHS): Yes

## Flammability, LS0H, Toxicity Testing

UL voltage rating: 600 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): No

## Part Number

### Variants

Item #	Color	Footnote
83350E 009100	White	E
83350E 0091000	White	E
83350E 009500	White	E

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

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