



**Part Number: 83352E**

MIL-W-16878/4 (Type E), (4) 16 AWG (19x29) SPC, TFE/TFE, SPC Braid Shld

## Product Description

Four 16 AWG stranded (19x29) 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
16	19x29	SPCCS - Silver Plated Copper Covered Steel	4

Conductor Count:	4
Conductor Size:	16 AWG

#### Insulation

Material	Material Trade Name	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.011 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®	0.229 in	0.011 in

### Construction and Dimensions

#### Cabling

Lay Length
2.5 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
4.4 Ohm/1000ft	3.79 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30.2 pF/ft	50.8 pF/ft

Shielding:	Braid(s)
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## Inductance

### Nominal Inductance

0.155 µH/ft

## Current

### Max. Recommended Current [A]

11 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: 57 lbs/1000ft

Max Recommended Pulling Tension: 166.2 lbs

Min Bend Radius/Minor Axis: 2.5 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, LSOH, Toxicity Testing

UL voltage rating: 600 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): No

## Part Number

### Variants

Item #	Color	Footnote
83352E 009100	White	E
83352E 0091000	White	E
83352E 009500	White	E

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

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