



**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     | SPC - Silver Plated Copper | 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) |
|------------|----------|

## Inductance

### Nominal Inductance

0.155 µH/ft

## Current

### Max. Recommended Current [A]

11 Amps per conductor @ 25°C

## Voltage

### UL Voltage Rating

600V 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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