



**Product:** [83337E](#)

Electronic, 3 C #16 Str SPC, TFE Ins, OA SPC Brd, TFE Tape Jkt, MIL-W-16878/4 (Type E)

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## Product Description

High Temperature Electronic, 3 Conductor 16AWG (19x29) Silver Plated Copper, TFE Insulation, Overall Silver Plated Copper Braid(85%) Shield, TFE Tape Outer Jacket, MIL-W-16878/4 (Type E)

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
16	19x29	SPC - Silver Plated Copper	3

Conductor Count:

#### Insulation

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

#### Color Chart

Number	Color
1	White
2	Black
3	Red

#### 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®	0.209 in	0.011 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
4.4 Ohm/1000ft	6.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30.7 pF/ft	53 pF/ft

#### Inductance

Nominal Inductance
0.148 µH/ft

#### Current

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

## Voltage

### Non-UL Voltage Rating

600 V RMS

## Temperature Range

Operating Temp Range: -65°C To +200°C

## Mechanical Characteristics

Bulk Cable Weight: 45 lbs/1000ft

Max Recommended Pulling Tension: 130.9 lbs

Min Bend Radius/Minor Axis: 2.25 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

MII Order #39 (China RoHS): Yes

## Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 600 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): No

## Part Number

### Variants

Item #	Color	UPC	Length	Footnote
83337E 009100	White	612825204268	100 ft	E
83337E 0091000	White	612825204275	1,000 ft	E
83337E 009500	White	612825204282	500 ft	E

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

## Product Notes

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

## History

Update and Revision: Revision Number: 0.290 Revision Date: 12-19-2019

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