



## Product: [83306E](#)

Electronic, 1 C #20 Str SPC, TFE Ins, OA SPC Brd, TFE Jkt, MIL-W-16878/4 (Type E)

 [Request Sample](#)

### Product Description

High Temperature Electronic, 1 Conductor 20AWG (19x32) Silver Plated Copper, TFE Insulation, Overall Silver Plated Copper Braid(85%) Shield, TFE Outer Jacket, MIL-W-16878/4 (Type E)

### Technical Specifications

#### Product Overview

Suitable Applications:	MIL-W-16878/4 (Type E) Spec; extreme high/low temperature environments; up to 600V analog signals ; up to 600V voltage control
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Coax
20	19x32	SC - Silvered Copper	1

Conductor Count: 1

##### Insulation

Material	Material Trade Name	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	Teflon®	0.01 in

##### Color Chart

Color
White

##### Outer Shield Material

Type	Material	Coverage (%)
Braid	SC - Silvered Copper	85 %

##### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	Teflon®	0.099 in	0.01 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
8.9 Ohm/1000ft	12 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
69 pF/ft

##### Impedance

Nominal Characteristic Impedance
21 Ohm

##### Current

**Max. Recommended Current [A]**

6.5 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: 12 lbs/1000ft

Max Recommended Pulling Tension: 27.8 lbs

Min Bend Radius/Minor Axis: 1 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	Putup Type	Length	UPC
83306E 009100	White	Reel	100 ft	612825203889

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: 0.303 Revision Date: 04-28-2020

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