



**Product:** [83305E](#)

Electronic, 1 C #22 Str SPC, TFE Ins, OA SPC Brd, TFE Tape Jkt, MIL-W-16878/4 (Type E)

[Request Sample](#)

## Product Description

High Temperature Electronic, 1 Conductor 22AWG (19x34) Silver Plated Copper, TFE Insulation, Overall Silver Plated Copper Braid(85%) Shield, TFE Tape 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
22	19x34	SC - Silvered Copper	1

Conductor Count:	1
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#### 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®	0.091 in	0.01 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
14.3 Ohm/1000ft	11.3 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
57.9 pF/ft

#### Inductance

Nominal Inductance
0.12 µH/ft

#### Current

**Max. Recommended Current [A]**

5 Amps per conductor at 25°C

**Voltage****UL Voltage Rating**

600 V RMS

**Temperature Range**

Operating Temp Range: -65°C To +200°C

**Mechanical Characteristics**

Bulk Cable Weight: 9 lbs/1000ft

Max Recommended Pulling Tension: 22.3 lbs

Min Bend Radius/Minor Axis: 1 in

**Standards**

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, LSOH, Toxicity Testing**

UL voltage rating: 600 V RMS

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Part Number****Variants**

Item #	Color	Putup Type	Length	UPC
83305E 009100	White	Reel	100 ft	612825203865
83305E 0091000	White	Reel	1,000 ft	612825203872

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: 0.302 Revision Date: 04-28-2020

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