



Product: [83308E](#)

Electronic, 1 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, 1 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

#### Product Overview

Suitable Applications:	MIL-W-16878/4 (Type E) Spec; Extreme High/Low Temperature Environments; up to 600V analog signals & voltage control
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	16 AWG	19x29	SC - Silvered Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.011 in (0.28 mm)	White

##### Outer Shield

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

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.011 in (0.28 mm)	0.120 in (3.05 mm)

Overall Cable Diameter (Nominal):	0.120 in (3.05 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Shield	Max. Current
Conductor(s)	4.4 Ohm/1000ft (14 Ohm/km)	72.5 pF/ft (238 pF/m)	11 Amps per conductor @ 25°C

##### Voltage

Voltage Rating
600 V

#### Mechanical Characteristics

##### Temperature

Operating
-65°C to +200°C

Max. Pull Tension:	50.2 lbs (22.8 kg)
Bulk Cable Weight:	18 lbs/1000ft (27 kg/km)

#### Standards and Compliance

Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	IEC 60332-1-2
NEMA Compliance:	NEMA HP3
Military Compliance:	MIL-W-16878/4 (Type E except stranding), (insulated conductors)
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## Product Notes

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

Update and Revision:	Revision Number: 0.385 Revision Date: 02-03-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83308E 009500	White	Reel	500 ft	612825203919	E
83308E 0091000	White	Reel	1,000 ft	612825203902	E

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