


**Product: [83322E](#)**

Electronic, 2 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, 2 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)	2	16 AWG	19x29	SC - Silvered Copper

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.011 in (0.28 mm)	0.077 in (2.0 mm)	White, Black

**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)	0.197 in (5.00 mm)

Overall Cable Diameter (Nominal): 0.197 in (5.00 mm)

**Electrical Characteristics**
**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance	Max. Current
Conductor(s)	4.4 Ohm/1000ft	36 pF/ft (120 pF/m)	60 pF/ft (200 pF/m)	0.155 $\mu$ H/ft (0.509 $\mu$ H/m)	11 Amps per conductor @ 25°C
Nom Outer Shield DCR:	7.7 Ohm/1000ft (25 Ohm/km)				

**Voltage**

Voltage Rating
600 V

**Mechanical Characteristics**
**Temperature**

UL Temperature	Operating
200°C	-65°C to +200°C

**Bend Radius**

Stationary Min.	Installation Min.

1.97 in (50.0 mm) 1.97 in (50.0 mm)

Max. Pull Tension: 95.5 lbs (43.3 kg)

Bulk Cable Weight: 33 lbs/1000ft

## Standards and Compliance

Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Eca
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## Product Notes

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## History

Update and Revision: Revision Number: 0.536 Revision Date: 09-07-2025

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83322E 009100	White	Reel	100 ft	612825204084	E
83322E 009500	White	Reel	500 ft	612825204107	E
83322E 0091000	White	Reel	1,000 ft	612825204091	E

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

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