



## Product: [83348E](#)

Electronic, 4 C #24 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, 4 Conductor 24AWG (19x36) 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 Conductors
24	19x36	SC - Silvered Copper	4

Conductor Count: 4

##### Insulation

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

##### Color Chart

Number	Color
1	White
2	Black
3	Red
4	Green

##### 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®	0.149 in	0.011 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR
23.3 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
21.9 pF/ft	36.8 pF/ft

##### Inductance

Nominal Inductance

0.12  $\mu$ H/ft**Current****Max. Recommended Current [A]**

4 Amps per conductor @ 25°C

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

600 V RMS

**Temperature Range**

Operating Temp Range: -65°C To +200°C

**Mechanical Characteristics**

Bulk Cable Weight: 21 lbs/1000ft

Max Recommended Pulling Tension: 53.4 lbs

Min Bend Radius/Minor Axis: 1.5 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
83348E 009500	White			612825204367
83348E 009100	White	Reel	100 ft	612825204343
83348E 0091000	White	Reel	1,000 ft	612825204350

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: 0.301 Revision Date: 04-28-2020

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