



**Product:** [83318E](#)

Electronic, 2 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, 2 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

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	24	19x36	SC - Silvered Copper	2

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Element	Material	Material Trade Name	Nominal Wall Thickness
Conductor(s)	PTFE - Polytetrafluoroethylene	Teflon®	0.01 in

#### Color Chart

Number	Color
1	White
2	Black

#### 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®	0.131 in	0.011 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
23 Ohm/1000ft	8 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
26.5 pF/ft	42.4 pF/ft

#### Inductance

Nominal Inductance
0.12 µH/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: 14 lbs/1000ft

Max Recommended Pulling Tension: 31.6 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

CA Prop 65: Yes

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
83318E 009500	White			612825203957
83318E 009100	White	Reel	100 ft	612825203940
83318E 0091000	White	Reel	1,000 ft	

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: 0.305 Revision Date: 05-05-2020

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