



REPRESENTATIVE IMAGE

**Product:** [83335E](#)

Electronic, 3 C #20 Str SPC, TFE Ins, OA SPC Brd, TFE Jkt, MIL-W-16878/4 (Type E)

[Request Sample](#)

## Product Description

High Temperature Electronic, 3 Conductor 20AWG (19x32) Silver Plated Copper, TFE Insulation, Overall Silver Plated Copper Braid(85%) Shield, TFE 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	Number of Element	AWG	Stranding	Material
Conductor(s)	3	20	19x32	SC - Silvered Copper

#### Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.010	White, Black, Red

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.010 in	0.168 in

Cable Diameter (Nominal):	0.168 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	7.3 Ohm/1000ft	31.7 pF/ft	51 pF/ft	6.5 Amps per conductor @ 25°C
Nom Outer Shield DCR:	4.4 Ohm/1000ft			

#### Voltage

Non-UL Voltage Rating
600 V

### Mechanical Characteristics

#### Temperature

Operating
-65°C to +200°C

#### Bend Radius

Stationary Min.	Installation Min.
1.75 in	1.7 in

Max. Pull Tension:	74.8 lbs
Bulk Cable Weight:	28 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	IEC 60332-1-2
NEMA Compliance:	NEMA HP3
Military Compliance:	MIL-W-16878/4 (Type E except stranding), (insulated conductors)
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), 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: 0.357 Revision Date: 09-30-2020
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