



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

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

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## 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	Size	Stranding	Material
Conductor(s)	3	20 AWG	19x32	SC - Silvered Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.010 in (0.25 mm)	0.058 in (1.5 mm)	White, Black, Red

#### Outer Shield

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

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.010 in (0.25 mm)	0.168 in (4.27 mm)

Overall Cable Diameter (Nominal): 0.168 in (4.27 mm)

### 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 (104 pF/m)	51 pF/ft (170 pF/m)	6.5 Amps per conductor @ 25°C

#### Voltage

Voltage Rating
600 V

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.
1.68 in (42.7 mm)	1.68 in (42.7 mm)

Max. Pull Tension:	45 lbs (20 kg)
Bulk Cable Weight:	28 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)
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: 0.486 Revision Date: 06-30-2022
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
83335E 009100	White	Reel	100 ft	612825204213
83335E 009500	White	Reel	500 ft	612825204237
83335E 0091000	White	Reel	1,000 ft	612825204220

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