



Product: <u>83335E</u> ☑

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

Construction Details

Conductor

Element	No. of Elements	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 (Nomina	al): 0.1	68 in (4.27 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)	7.3 Ohm/1000ft	31.7 pF/ft (104 pF/m)	51 pF/ft (170 pF/m)	0.124 μH/ft (0.407 μH/m)	6.5 Amps per conductor @ 25°C
Nom Outer Sh	nield DCR@Cond DCR1-	cnv: 8 Ohm/1000ft (26 Ohm/km)			

Voltage

Voltage Rating 600 V

Mechanical Characteristics

Temperature

Operating -65°C to +200°C

Bend Radius

Stationary Min. Installation Min.

1.06 1 (42.7 1 11)	
Max. Pull Tension:	45 lbs (20 kg)
Bulk Cable Weight:	28 lbs/1000ft

Standards and Compliance

1 60 in (42 7 mm) 1 60 in (42 7 mm)

Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: 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: 0.659 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83335E 009100	White	Reel	100 ft	612825204213	E
83335E 009500	White	Reel	500 ft	612825204237	E
83335E 0091000	White	Reel	1,000 ft	612825204220	E
Footnote:			Е	- MAY CONTAIN	MORE TH

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