



Product: [83305E](#) 

Electronic, 1 C #22 Str SPC, TFE Ins, OA SPC Brd, TFE Tape Jkt, MIL-W-16878/4 (Type E)

 [Request Sample](#)

Product Description

High Temperature Electronic, 1 Conductor 22AWG (19x34) 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 & voltage control
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	22 AWG	19x34	SC - Silvered Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.010 in (0.25 mm)	White

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)	0.091 in (2.3 mm)

Overall Cable Diameter (Nominal):	0.091 in (2.3 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Inductance	Max. Current
Conductor(s)	14.3 Ohm/1000ft (46.9 Ohm/km)	57.9 pF/ft (190 pF/m)	0.12 µH/ft (0.39 µH/m)	5 Amps per conductor at 25°C

Nom Outer Shield DCR@Cond DCR1-cnvt:	11.3 Ohm/1000ft (37.1 Ohm/km)
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Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

Operating
-65°C to +200°C

Max. Pull Tension:	22.3 lbs (10.1 kg)
Bulk Cable Weight:	9 lbs/1000ft (13 kg/km)

Standards and Compliance

Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	IEC 60332-1-2
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)
UK Regulation Compliance:	UKCA Mark
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: 0.378 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83305E 009100	White	Reel	100 ft	612825203865	E
83305E 0091000	White	Reel	1,000 ft	612825203872	E

Footnote:	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.
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