



Product: [83307E](#) 

Electronic, 1 C #18 Str SPC, TFE Ins, OA SPC Brd, TFE Jkt, MIL-W-16878/4 (Type E)

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Product Description

High Temperature Electronic, 1 Conductor 18AWG (19x30) 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	No. of Elements	Size	Stranding	Material
Conductor(s)	1	18 AWG	19x30	SC - Silvered Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.0105 in (0.267 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)	0.109 in (2.77 mm)

Overall Cable Diameter (Nominal):	0.109 in (2.77 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Shield	Max. Current
Conductor(s)	5.7 Ohm/1000ft (19 Ohm/km)	71.5 pF/ft (235 pF/m)	8.1 Amps per conductor @ 25°C

Nom Outer Shield DCR@Cond DCR1-cnvt:	15.3 Ohm/1000ft (50.2 Ohm/km)
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Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

Operating
-65°C to +200°C

Max. Pull Tension:	44.5 lbs (20.2 kg)
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Bulk Cable Weight:	15 lbs/1000ft (22 kg/km)
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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: 0.380 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	UPC	Footnote
83307E 0091000	White	612825203896	E

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