



Product: [83351E](#)

Electronic, 4 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, 4 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)	4	18 AWG	19x30	SC - Silvered Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.0105 in (0.267 mm)	0.068 in (1.7 mm)	White, Black, Red, Green

##### Outer Shield

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

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.011 in (0.28 mm)	0.207 in (5.26 mm)

Overall Cable Diameter (Nominal):	0.207 in (5.26 mm)
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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)	5.7 Ohm/1000ft	31 pF/ft (100 pF/m)	52.8 pF/ft (173 pF/m)	8.1 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.
2.07 in (52.6 mm)	2.07 in (52.6 mm)

Max. Pull Tension:	98.8 lbs (44.8 kg)
Bulk Cable Weight:	47 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)
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: 0.571 Revision Date: 02-03-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83351E 009100	White	Reel	100 ft	612825204459	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. LENGTH 100 FT, TOLERANCE: EXACT, MAX # OF PIECES: 2, MIN LENGTH EACH PIECE: 25 FT
83351E 009500	White	Reel	500 ft	612825204473	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. LENGTH 500 FT, TOLERANCE: EXACT, MAX # OF PIECES: 3, MIN LENGTH EACH PIECE: 25 FT
83351E 0091000	White	Reel	1,000 ft	612825204466	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. LENGTH 1000 FT, TOLERANCE: EXACT, MAX # OF PIECES: 6, MIN LENGTH EACH PIECE: 25 FT

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