Belden



Product: 83333E

Electronic, 3 C #24 Str SPC, TFE Ins, OA SPC Brd, TFE Tape Jkt, MIL-W-16878/4 (Type E)

Request Sample

Product Description

High Temperature Electronic, 3 Conductor 24AWG (19x36) 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	24 AWG	19x36	SC - Silvered Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.010 in (0.25 mm)	0.044 in (1.1 mm)	White, Black, Red

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.011 in (0.28 mm)	0.137 in (3.48 mm)

Overall Cable Diameter (Nominal):	0.137 in (3.48 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)	22.9 Ohm/1000ft	21.9 pF/ft (71.9 pF/m)	36.8 pF/ft (121 pF/m)	0.14 µH/ft (0.46 µH/m)	4 Amps per conductor @ 25°C

Nom Outer Shield DCR:	7.5 Ohm/1000ft (25 Ohm/km)

Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.

1.37 in (34.8 mm)	1.37 in (34.8 mm)

Max. Pull Tension:	17.7 lbs (8.03 kg)
Bulk Cable Weight:	17 lbs/1000ft

Standards and Compliance

Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Fca
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.

History

Update and Revision:	Revision Number: 0.527 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83333E 009100	White	Reel	100 ft	612825204169	E
83333E 0091000	White	Reel	1,000 ft	612825204176	E

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

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