

Product: 83337E

Electronic, 3 C #16 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 16AWG (19x29) 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	Number of Element	Size	Stranding	Material
Conductor(s)	3	16 AWG	19x29	SC - Silvered Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	PTFE - Polytetrafluoroethylene	0.011 in (0.28 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)	0.209 in (5.31 mm)

Overall Cable Diameter (Nominal):	0.209 in (5.31 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	4.4 Ohm/1000ft (14 Ohm/km)	30.7 pF/ft (101 pF/m)	53 pF/ft (170 pF/m)	11 Amps per conductor @ 25°C

Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

Operating
-65°C to +200°C

Bend Radius

Stationary Min.	Installation Min.

2.1 in (53 mm)	2.1 in (53 mm)

Max. Pull Tension:	130.9 lbs (59.38 kg)
Bulk Cable Weight:	45 lbs/1000ft (67 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
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)
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: 0.367 Revision Date: 12-15-2021

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
83337E 009100	White	Reel	100 ft	612825204268
83337E 009500	White	Reel	500 ft	612825204282
83337E 0091000	White	Reel	1,000 ft	612825204275

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