



Part Number: 83322E

MIL-W-16878/4 (Type E), (2) 16 AWG (19x29) SPC, TFE/TFE, SPC Braid Shld

Product Description

Two 16 AWG stranded (19x29) silver-plated copper conductors, Teflon® (TFE) insulation, silver plated copper braid shield (85% coverage), Teflon® (TFE) jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
16	19x29	SPC - Silver Plated Copper	2

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	16 AWG

Insulation

Material	Material Trade Name	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.011 in

Color Chart

Number	Color
1	White
2	Black

Outer Shield Material

Type	Material	Coverage [%]
Braid	SPC - Silver Plated Copper	85 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.197 in	0.011 in

Construction and Dimensions

Cabling

Lay Length	Lay Direction	Twists
2 in	Left Hand	6 twist/ft

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
4.4 Ohm/1000ft	4.4 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
36 pF/ft	60 pF/ft
Shielding:	Braid(s)

Inductance

Nominal Inductance
0.155 µH/ft

Current

Element	Max. Recommended Current [A]
35C Temperature Rise	11 Amps per conductor @ 25°C ambient

Voltage

Non-UL Voltage Rating
600 V RMS

Temperature Range

Operating Temp Range:	-65°C To +200°C
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Mechanical Characteristics

Bulk Cable Weight:	33 lbs/1000ft
Max Recommended Pulling Tension:	95.5 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

CPR Euroclass:	Eca
Military Specification:	MIL-W-16878/4 (Type E except stranding), (insulated conductors)
Other Specification:	NEMA HP3

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LSOH, Toxicity Testing

UL Voltage Rating:	600 V RMS
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
83322E 009100	WHITE	E
83322E 0091000	WHITE	E
83322E 009500	WHITE	E

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