



Part Number: 83334E

MIL-W-16878/4 (Type E), (3) 22 AWG (19x34) SPC, TFE/TFE, SPC Braid Shld

Product Description

Three 22 AWG stranded (19x34) 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
22	19x34	SPC - Silver Plated Copper	3

Conductor Count:	3
Conductor Size:	22 AWG

Insulation

Material	Material Trade Name	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.01 in

Color Chart

Number	Color
1	White
2	Black
3	Red

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®	0.15 in	0.011 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
14.5 Ohm/1000ft	4.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
27.4 pF/ft	45.7 pF/ft

Shielding:	Braid(s)
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Inductance

Nominal Inductance
0.139 µH/ft

Current

Max. Recommended Current [A]
5 Amps per conductor at 25°C

Voltage

UL Voltage Rating
600V RMS

Temperature Range

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

Bulk Cable Weight:	22 lbs/1000ft
Max Recommended Pulling Tension:	58.3 lbs
Min Bend Radius/Minor Axis:	1.5 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

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
83334E 009100	WHITE	E
83334E 0091000	WHITE	E
83334E 009500	WHITE	E

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