



Part Number: 83306E

MIL-W-16878/4 (Type E), (1) 20 AWG (19x32) SPC, TFE/TFE, SPC Braid Shld

Product Description

One 20 AWG stranded (19x32) 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	No. of Coax
20	19x32	SPC - Silver Plated Copper	1	1

Conductor Count:	1
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Insulation

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

Color Chart

Color
White

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®	0.099 in	0.01 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
8.9 Ohm/1000ft	12 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
69 pF/ft

Impedance

Nominal Characteristic Impedance
21 Ohm

Current

Max. Recommended Current [A]
6.5 Amps per conductor @ 25°C

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:	12 lbs/1000ft
Max Recommended Pulling Tension:	27.8 lbs
Min Bend Radius/Minor Axis:	1 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

Part Number

Plenum (Y/N):	No
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Variants

Item #	Color
83306E 009100	WHITE

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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