



Part Number: 83335E

MIL-W -16878/4 (Type E), (3) 20 AWG (19x32) SPC, TFE/TFE, SPC Braid Shld

Product Description

Three 20 AWG stranded (19x32) silver-plated copper conductors, Teflon® (TFE) insulation, silver plated copper braid shield (85% coverage), Teflon® (TFE) jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Conductors
20	19x32	SPC - Silver Plated Copper	3
Total Number of Conductors:			3

Insulation:

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

Color Chart 1:

Number	Color
1	White
2	Black
3	Red

Outershield 1:

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

Outerjacket 1:

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.168 in	0.01 in

Electrical Characteristics

Conductor DCR:

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

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
31.7 pF/ft	51 pF/ft

Min Insulation Resistance:	100,000 Megaohms/1000 ft. @ 500 V DC MOhm*1000ft
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Current:

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

Inductance:

Nominal Inductance
0.124 µH/ft

Voltage:

UL Voltage Rating
600 V RMS

Use

Max Recommended Pulling Tension:	74.8 lbs
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Safety

Temperature Range

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

Min Bend Radius/Minor Axis:	1.75 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
Military Specification:	Military Specification
Other Specification:	Other Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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Product Variants

Part Number	Color	Put-Up Type	Length
83335E 0091000	WHITE	Reel	1000 ft
83335E 009100	WHITE	Reel	100 ft
83335E 009500	WHITE	Reel	500 ft

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