

**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.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	No. of Conductors
20	19x32	SPC - Silver Plated Copper	1
Total Number of Conductors:			1

#### Insulation:

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

#### Color Chart 1:

Color
White

#### 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®	0.099 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	
Min Insulation Resistance:	100,000 Megaohms/1000 ft. @ 500 V DC MOhm*1000ft

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

Use

Max Recommended Pulling Tension:	27.8 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 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)
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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
83306E 009100	WHITE	Reel	100 ft

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