



**Part Number:** 83351E

MIL-W -16878/4 (Type E), (4) 18 AWG (19x30) SPC, TFE/TFE, SPC Braid Shld

## Product Description

Four 18 AWG stranded (19x30) 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
18	19x30	SPC - Silver Plated Copper	4

<b>Total Number of Conductors:</b>	4
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#### Insulation:

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

#### Color Chart 1:

Number	Color
1	White
2	Black
3	Red
4	Green

## 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®	0.207 in	0.011 in

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
5.7 Ohm/1000ft	4.1 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
31 pF/ft	52.8 pF/ft

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

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

### Inductance:

Nominal Inductance
0.126 µH/ft

### Voltage:

UL Voltage Rating
600 V RMS

## Use

<b>Max Recommended Pulling Tension:</b>	138.5 lbs
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## Safety

## Temperature Range

<b>Operating Temp Range:</b>	-65°C To +200°C
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## Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.25 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
83351E 0091000	WHITE	Reel	1000 ft
83351E 009100	WHITE	Reel	100 ft
83351E 009500	WHITE	Reel	500 ft

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