



**Part Number:** 83336E

MIL-W-16878/4 (Type E), (3) 18 AWG (19x30) SPC, TFE/TFE, SPC Braid Shld

## Product Description

Three 18 AWG stranded (19x30) 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
18	19x30	SPCCS - Silver Plated Copper Covered Steel	3

Conductor Count:	3
Conductor Size:	18 AWG

#### Insulation

Material	Material Trade Name	Nominal Wall Thickness
TFE - Tetrafluoroethylene	Teflon®	0.0105 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®	0.189 in	0.011 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
5.7 Ohm/1000ft	4.5 Ohm/1000ft

#### Capacitance

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

Shielding:	Braid(s)
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#### Inductance

Nominal Inductance
0.114 µH/ft

#### Current

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

## Voltage

<b>UL Voltage Rating</b>
600 V RMS

## Temperature Range

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

Bulk Cable Weight:	37 lbs/1000ft
Max Recommended Pulling Tension:	108.8 lbs
Min Bend Radius/Minor Axis:	2 in

## Standards

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, LS0H, 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
83336E 009100	White	E
83336E 0091000	White	E
83336E 009500	White	E

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