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1-800-Belden1



### Description:

18 AWG stranded (19x30) silver-plated copper conductors, cabled and color-coded, extruded TFE Teflon® insulation, silver-plated copper braid shield (85% coverage), TFE teflon tape-wrapped jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material
1	18	19x30	SPC - Silver Plated Copper

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.011

Insulation Resistance: 100,000 Megaohms/1000 ft.

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	85

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.010

#### Overall Cabling

##### Overall Cabling Color Code Chart:

Color
White

Overall Nominal Diameter: 0.109 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -65°C To +200°C

Bulk Cable Weight: 15.800 lbs/1000 ft.

Max. Recommended Pulling Tension: 44.500 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.125 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2005

EU Directive 2002/96/EC (WEEE): Yes

## 83307E Multi-Conductor - MIL-W-16878/4 (Type E)

EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Military Specification:	MIL-W-16878/4 (Type E except stranding) (insulated conductors)

### Flame Test

UL Flame Test:	UL1685 UL Loading, VW-1
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
21

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
71.5

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.7

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
15.3

### Max. Operating Voltage - UL:

Voltage
600 V RMS

### Max. Recommended Current:

Current
8.1 Amps per conductor @ 25°C

## Notes (Overall)

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

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83307E 0091000	1,000 FT	16.000 LB	WHITE	E	1 #18 TFE BRD TFE TAPE

**Notes:**  
E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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