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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
4	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. @ 500 V DC

### 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	.011

### Overall Cable

**Overall Cabling Lay Length & Direction:**

Length (in.)	Twists (ft.)
2	6

**Overall Cabling Color Code Chart:**

Number	Color
1	White
2	Black
3	Red
4	Green

**Overall Nominal Diameter:** 0.207 in.

## Mechanical Characteristics (Overall)

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

**Bulk Cable Weight:** 48.600 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 138.500 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 2 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

**EU CE Mark:** Yes

## 83351E Multi-Conductor - MIL-W-16878/4 (Type E)

<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MIL Order #39 (China RoHS):</b>	Yes
<b>Military Specification:</b>	MIL-W-16878/4 (Type E except stranding), (insulated conductors)

### Flame Test

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

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

### Nom. Inductance:

**Inductance (µH/ft)**

.126

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/ft)**

31

### Nom. Capacitance Cond. to Other Conductor & Shield:

**Capacitance (pF/ft)**

52.8

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**

5.7

### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**

4.1

### 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
83351E 009100	100 FT	5.400 LB	WHITE	E	4 #18 TFE BRD TFE TAPE
83351E 0091000	1,000 FT	54.000 LB	WHITE	E	4 #18 TFE BRD TFE TAPE
83351E 009500	500 FT	25.000 LB	WHITE	E	4 #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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