

## 83322E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

For more Information  
please call

1-800-Belden1



### General Description:

16 AWG stranded (19x29) 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
2	16	19x29	SPC - Silver Plated Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	TFE - Tetrafluoroethylene	0.279

#### 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 (mm)
Teflon®	TFE - Tetrafluoroethylene	0.2794

#### Overall Cable

Overall Cabling Lay Length & Direction:

Length (mm)	Direction	Twists (twist/m)
50.800	Left Hand	19.686

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black

Overall Nominal Diameter: 5.004 mm

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 49.111 Kg/Km

Max. Recommended Pulling Tension: 424.803 N

Min. Bend Radius/Minor Axis: 50.800 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

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

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

## METRIC MEASUREMENT VERSION

### 83322E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

<b>Military Specification:</b>	MIL-W-16878/4 (Type E except stranding), (insulated conductors)
<b>Other Specification:</b>	NEMA HP3
<b>Suitability</b>	
<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Plenum/Non-Plenum</b>	
<b>Plenum (Y/N):</b>	No

#### Electrical Characteristics (Overall)

##### Nom. Inductance:

<b>Inductance (µH/m)</b>
0.508555

##### Nom. Capacitance Conductor to Conductor:

<b>Capacitance (pF/m)</b>
118.116

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

<b>Capacitance (pF/m)</b>
196.86

##### Nom. Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
14.4364

##### Nominal Outer Shield DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
14.4364

##### Max. Operating Voltage - Non-UL:

<b>Voltage</b>
600 V RMS

##### Max. Recommended Current:

Description	Current
35C Temperature Rise	11 Amps per conductor @ 25°C ambient

#### Notes (Overall)

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

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83322E 009100	100 FT	3.400 LB	WHITE	E	2 #16 TFE BRD TFE TAPE
83322E 0091000	1,000 FT	35.000 LB	WHITE	E	2 #16 TFE BRD TFE TAPE
83322E 009500	500 FT	17.500 LB	WHITE	E	2 #16 TFE BRD TFE TAPE

##### Notes:

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

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