

## 83337E Multi-Conductor - MIL-W-16878/4 (Type E)



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
3	16	19x29	SPC - Silver Plated Copper

Total Number of Conductors: 3

**Insulation**

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	0.011

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 Color Code Chart:

Number	Color
1	White
2	Black
3	Red

Overall Nominal Diameter: 0.209 in.

**Mechanical Characteristics (Overall)**

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

Bulk Cable Weight: 45 lbs/1000 ft.

Max. Recommended Pulling Tension: 130.900 lbs.

Min. Bend Radius/Minor Axis: 2.250 in.

**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

Military Specification: MIL-W-16878/4 (Type E except stranding), (insulated conductors)

Other Specification:	NEMA HP3
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Inductance:**

Inductance (µH/ft)
.148

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)
30.7

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

Capacitance (pF/ft)
53

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
4.4

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
6.6

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

Voltage
600 V RMS

**Max. Recommended Current:**

Current
11 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.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83337E 009100	100 FT	4.900 LB	WHITE	E	3 #16 TFE BRD TFE TAPE
83337E 0091000	1,000 FT	48.000 LB	WHITE	E	3 #16 TFE BRD TFE TAPE
83337E 009500	500 FT	24.000 LB	WHITE	E	3 #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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