

83336E Multi-Conductor - MIL-W-16878/4 (Type E)

For more Information
please call

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
3	18	19x30	SPC - Silver Plated Copper

Total Number of Conductors: 3

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 Color Code Chart:**

Number	Color
1	White
2	Black
3	Red

Overall Nominal Diameter: 0.189 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 37 lbs/1000 ft.

Max. Recommended Pulling Tension: 108.800 lbs.

Min. Bend Radius/Minor Axis: 2 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

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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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

MII Order #39 (China RoHS): Yes

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

Other Specification: NEMA HP3

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (μH/ft)

.114

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)

4.5

Max. Operating Voltage - UL:

Voltage

600 V RMS

Max. Recommended Current:

Current

8.2 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
83336E 009100	100 FT	4.400 LB	WHITE	E	3 #18 TFE BRD TFE TAPE
83336E 0091000	1,000 FT	39.000 LB	WHITE	E	3 #18 TFE BRD TFE TAPE
83336E 009500	500 FT	20.000 LB	WHITE	E	3 #18 TFE BRD TFE TAPE

Notes:

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

Revision Number: 4 Revision Date: 08-31-2012

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