

83333E Multi-Conductor - MIL-W-16878/4 (Type E)



For more Information
please call

1-800-Belden1

**General Description:**

24 AWG stranded (19x36) 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	24	19x36	SPC - Silver Plated Copper

Total Number of Conductors: 3

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.010

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: 0.137 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 17 lbs/1000 ft.

Max. Recommended Pulling Tension: 42.500 lbs.

Min. Bend Radius/Minor Axis: 1.500 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)

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Other Specification:	NEMA HP3
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)	
Nom. Inductance:	
Inductance (µH/ft)	.14
Nom. Capacitance Conductor to Conductor:	
Capacitance (pF/ft)	21.9
Nom. Capacitance Cond. to Other Conductor & Shield:	
Capacitance (pF/ft)	36.8
Nom. Conductor DC Resistance:	
DCR @ 20°C (Ohm/1000 ft)	22.9
Max. Operating Voltage - UL:	
Voltage	600 V RMS
Max. Recommended Current:	
Current	4 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
83333E 009100	100 FT	1.900 LB	WHITE	E	3 #24 TFE BRD TFE TAPE
83333E 0091000	1,000 FT	18.000 LB	WHITE	E	3 #24 TFE BRD TFE TAPE

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

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