Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	TFE - Tetrafluoroethylene	0.2794

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

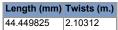
Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon®	TFE - Tetrafluoroethylene	0.2794

Overall Cabling

Overall Cabling Lay Length & Direction:



Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red

Overall Nominal Diameter: 4.801 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-65°C To +200°C	
Bulk Cable Weight:	57.296 Kg/Km	
Max. Recommended Pulling Tension:	483.964 N	
Min. Bend Radius (Install)/Minor Axis:	47.625 mm	

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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EU CE Mark:	Yes	
EU Directive 2000/53/EC (ELV):	Yes	

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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
MII Order #39 (China RoHS):	Yes
Military Specification:	MIL-W-16878/4 (Type E except stranding), (insulated conductors)
Flame Test	
UL Flame Test:	UL1685 UL Loading, VW-1
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m) 0.374034

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 101.711

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 173.237

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 18.7017

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 14.7645

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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83336E 009100	30 MT	1.996 KG	WHITE	E	3 #18 TFE BRD TFE TAPE
83336E 0091000	305 MT	17.690 KG	WHITE	E	3 #18 TFE BRD TFE TAPE
83336E 009500	152 MT	9.072 KG	WHITE	E	3 #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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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.