Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



83349E Multi-Conductor - MIL-W-16878/4 (Type E)



For more Information please call

1-800-Belden1



Description:

22 AWG stranded (19x34) 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		
4	22	19x34	SPC - Silver Plated Copper		

Insulation

Insulation Material:

Insulation Trade Name Insulation Material		Wall Thickness (mm)		
Teflon®	TFE - Tetrafluoroethylene	0.254		

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:

Length (mm)	Twists (m.)
38.09985	2.4384

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red
4	Green

Overall Nominal Diameter: 4.140 mm

Mechanical Characteristics (Overall)					
Operating Temperature Range:	-65°C To +200°C				
Bulk Cable Weight:	40.479 Kg/Km				
Max. Recommended Pulling Tension:	301.588 N				
Min. Bend Radius (Install)/Minor Axis:	41.275 mm				

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark: Yes

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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
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) 0.518398

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 89.8994

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 149.942

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 48.2307

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 18.0455

Max. Operating Voltage - UL:

Voltage 600 V RMS

Max. Recommended Current:

Current
5 Amps per conductor at 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
83349E 009100	30 MT	1.542 KG	WHITE	E	4 #22 TFE BRD TFE TAPE
83349E 0091000	305 MT	12.247 KG	WHITE	E	4 #22 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.