Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

83305E 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
1	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	0.254

Overall Cabling

Overall Cabling Color Code Chart:

Color
White

Overall Nominal Diameter:	2.311 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-65°C To +200°C
Bulk Cable Weight:	13.245 Kg/Km
Max. Recommended Pulling Tension:	99.195 N
Min. Bend Radius (Install)/Minor Axis:	22.225 mm

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
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)
0.39372

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
189.97

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
46.9183

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
37.0753

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
83305E 009100	30 MT	0.454 KG	WHITE	E	1 #22 TFE BRD TFE TAPE
83305E 0091000	305 MT	4.536 KG	WHITE	E	1 #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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