

Detailed Specifications & Technical Data

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METRIC MEASUREMENT VERSION

83319E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

For more Information
please call

1-800-Belden1



General 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
2	22	19x34	SPC - Silver Plated Copper

Total Number of Conductors: 2

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	85.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon®	TFE - Tetrafluoroethylene	0.279

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black

Overall Nominal Diameter: 3.632 mm

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 25.299 Kg/Km

Max. Recommended Pulling Tension: 194.831 N

Min. Bend Radius/Minor Axis: 38.100 mm

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

MII 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 (μ H/m)

0.452778

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

98.1019

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

161.425

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

47.9026

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

18.7017

Max. Operating Voltage - Non-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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83319E 009100	30 MT	0.726 KG	WHITE	E	2 #22 TFE BRD TFE TAPE
83319E 0091000	305 MT	7.711 KG	WHITE	E	2 #22 TFE BRD TFE TAPE
83319E 009500	152 MT	4.309 KG	WHITE	E	2 #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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