Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

83318E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

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
2	24	19x36	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

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black

Overall Nominal Diameter: 3.327 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-65°C To +200°C
Bulk Cable Weight:	20.835 Kg/Km
Max. Recommended Pulling Tension:	140.563 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

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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)
Other Specification:	NEMA HP3

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m)
0.39372

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
86.9465

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
139.114

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
75.463

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
26.248

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
83318E 009100	100 FT	3.800 LB	WHITE	E	2 #24 TFE BRD TFE TAPE
83318E 0091000	1,000 FT	15.000 LB	WHITE	E	2 #24 TFE BRD TFE TAPE
83318E 009500	500 FT	7.500 LB	WHITE	E	2 #24 TFE BRD TFE TAPE

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

Revision Number: 5 Revision Date: 09-04-2012

exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).