

83320E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

For more Information
please call

1-800-Belden1



General Description:

20 AWG stranded (19x32) 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 | 20 | 19x32 | 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: 4.039 mm

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 31.252 Kg/Km

Max. Recommended Pulling Tension: 243.761 N

Min. Bend Radius/Minor Axis: 44.450 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

MIL Order #39 (China RoHS): Yes

Military Specification: MIL-W-16878/4 Type E (except stranding) (insulated conductors)

METRIC MEASUREMENT VERSION

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Other Specification: NEMA HP3

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m)

0.36091

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

104.008

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

167.331

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

29.2009

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

20.6703

Max. Operating Voltage - UL:

Voltage

600 V RMS

Max. Recommended Current:

Current

6.5 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 |
|----------------|----------|-------------|-------|-------|------------------------|
| 83320E 009100 | 100 FT | 2.800 LB | WHITE | E | 2 #20 TFE BRD TFE TAPE |
| 83320E 0091000 | 1,000 FT | 22.000 LB | WHITE | E | 2 #20 TFE BRD TFE TAPE |
| 83320E 009500 | 500 FT | 11.500 LB | WHITE | E | 2 #20 TFE BRD TFE TAPE |

Notes:

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

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