

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

 For more Information  
 please call

1-800-Belden1

**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

**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

**Overall Nominal Diameter:**

4.039 mm

**Mechanical Characteristics (Overall)**
**Operating Temperature Range:** -65°C To +200°C

**Bulk Cable Weight:** 32.740 Kg/Km

**Max. Recommended Pulling Tension:** 243.761 N

**Min. Bend Radius (Install)/Minor Axis:** 41.275 mm
**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**
**EU CE Mark:** Yes

**EU Directive 2000/53/EC (ELV):** Yes

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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)

## Flame Test

UL Flame Test:	UL1685 UL Loading, VW-1
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## 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 &amp; 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.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83320E 009100	30 MT	1.270 KG	WHITE	E	2 #20 TFE BRD TFE TAPE
83320E 0091000	305 MT	9.979 KG	WHITE	E	2 #20 TFE BRD TFE TAPE
83320E 009500	152 MT	5.216 KG	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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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.



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