

## 83306E Multi-Conductor - MIL-W-16878/4 (Type E)

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
1	20	19x32	SPC - Silver Plated Copper

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.010

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 (in.)
Teflon®	TFE - Tetrafluoroethylene	.010

#### Overall Cabling

Overall Cabling Color Code Chart:

Color
White

Overall Nominal Diameter: 0.099 in.

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 11.200 lbs/1000 ft.

Max. Recommended Pulling Tension: 27.800 lbs.

Min. Bend Radius (Install)/Minor Axis: 1 in.

### 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

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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
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:****Impedance (Ohm)**

21

**Nom. Capacitance Conductor to Shield:****Capacitance (pF/ft)**

69

**Nom. Conductor DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

8.9

**Nominal Outer Shield DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

12

**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
83306E 009100	100 FT	1.400 LB	WHITE	E	1 #20 TFE BRD TFE TAPE
83306E 0091000	1,000 FT	15.000 LB	WHITE	E	1 #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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compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.