# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



### 83335E Multi-Conductor - MIL-W-16878/4 (Type E)



For more Information please call

1-800-Belden1



#### **General Description:**

Military Specification:

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 19x32 SPC - Silver Plated Copper 20 **Total Number of Conductors:** 3 Insulation Insulation Material: **Insulation Trade Name Insulation Material** Wall Thickness (in.) TFE - Tetrafluoroethylene | .010 Insulation Resistance: 100,000 Megaohms/1000 ft. @ 500 V DC **Outer Shield Outer Shield Material:** Type Outer Shield Material Braid | SPC - Silver Plated Copper | 85 **Outer Jacket** Outer Jacket Material: Outer Jacket Trade Name Outer Jacket Material Nom. Wall Thickness (in.) TFE - Tetrafluoroethylene | 0.010 **Overall Cable Overall Cabling Color Code Chart:** Number Color White Black Red **Overall Nominal Diameter:** 0.168 in. **Mechanical Characteristics (Overall) Operating Temperature Range:** -65°C To +200°C **Bulk Cable Weight:** 28 lbs/1000 ft. Max. Recommended Pulling Tension: 74.800 lbs. Min. Bend Radius/Minor Axis: 1.750 in Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** EU Directive 2011/65/EU (ROHS II): EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): 01/01/2005 EU RoHS Compliance Date (mm/dd/yyyy): EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): MII Order #39 (China RoHS):

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

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Non-Plenum	
um (Y/N):	No
um (Y/N):	No

#### **Electrical Characteristics (Overall)**

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 31.7

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 51.0

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

Voltage 600 V RMS

Max. Recommended 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
83335E 009100	100 FT	3.400 LB	WHITE	E	3 #20 TFE BRD TFE TAPE
83335E 0091000	1,000 FT	29.000 LB	WHITE	E	3 #20 TFE BRD TFE TAPE
83335E 009500	500 FT	15.000 LB	WHITE	E	3 #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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product.

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

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