# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



# 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	

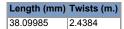
### **Outer Jacket**

### **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:**



### **Overall Cabling Color Code Chart:**

Number	Color
1	White
2	Black

Overall Nominal Diameter: 4.039 mm

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
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
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.

# **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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