



**Product:** <u>83335E</u> ☑

Electronic, 3 C #20 Str SPC, TFE Ins, OA SPC Brd, TFE Jkt, MIL-W-16878/4 (Type E)

Request Sample
 Requ

## **Product Description**

High Temperature Electronic, 3 Conductor 20AWG (19x32) Silver Plated Copper, TFE Insulation, Overall Silver Plated Copper Braid(85%) Shield, TFE Outer Jacket, MIL-W-16878/4 (Type E)

### **Technical Specifications**

#### **Product Overview**

Suitable Applications: MIL-W-16878/4 (Type E) Spec; extreme high/low temperature environments; up to 600V analog signals; up to 600V voltage control

### **Physical Characteristics (Overall)**

#### Conductor

Element	AWG	Stranding	Ma	aterial	No. of Conductors
Conductor(s)	20	19x32	SC - Silve	ered Copper	3
Conductor Count: 3		3			

### Insulation

Element	Material	Material Trade Name	Nominal Wall Thickness
Conductor(s)	PTFE - Polytetrafluoroethylene	Teflon®	0.01 in

#### **Color Chart**

Number	Color
1	White
2	Black
3	Red

#### **Outer Shield Material**

Type	Material	Coverage [%]
Braid	SC - Silvered Copper	85 %

## Outer Jacket Material

	Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
PTFE -	Polytetrafluoroethylene	Teflon®	0.168 in	0.01 in

# **Electrical Characteristics**

# Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
7.3 Ohm/1000ft	4.4 Ohm/1000ft

## Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
31.7 pF/ft	51 pF/ft

#### Inductance

Nominal Inductance

#### Current

# Max. Recommended Current [A] 6.5 Amps per conductor @ 25°C

# Voltage



## **Temperature Range**

Operating Temp Range:	-65°C To +200°C

### **Mechanical Characteristics**

Bulk Cable Weight:	28 lbs/1000ft
Max Recommended Pulling Tension:	74.8 lbs
Min Bend Radius/Minor Axis:	1.75 in

### **Standards**

CPR Euroclass:	Eca
Military Specification:	MIL-W-16878/4 (Type E except stranding), (insulated conductors)
Other Specification:	NEMA HP3

# **Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

# Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	600 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No

## **Part Number**

# Variants

Item #	Color	Putup Type	Length	UPC
83335E 009100	White	Reel	100 ft	612825204213
83335E 009500	White	Reel	500 ft	612825204237
83335E 0091000	White	Reel	1,000 ft	612825204220

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

## **Product Notes**

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# History

Update and Revision:	Revision Number: 0.301 Revision Date: 05-05-2020

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