



Product: [83334E](#)

Electronic, 3 C #22 Str SPC, TFE Ins, OA SPC Brd, TFE Tape Jkt, MIL-W-16878/4 (Type E)

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Product Description

High Temperature Electronic, 3 Conductor 22AWG (19x34) Silver Plated Copper, TFE Insulation, Overall Silver Plated Copper Braid(85%) Shield, TFE Tape 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

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|----------------------|-------------------|
| 22 | 19x34 | SC - Silvered Copper | 3 |

| | |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

Insulation

| Material | Material Trade Name | Nominal Wall Thickness |
|--------------------------------|---------------------|------------------------|
| 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® | 0.15 in | 0.011 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 14.5 Ohm/1000ft | 4.8 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 27.4 pF/ft | 45.7 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.139 µH/ft |

Current

Max. Recommended Current [A]

5 Amps per conductor at 25°C

Voltage

UL Voltage Rating

600 V RMS

Temperature Range

Operating Temp Range: -65°C To +200°C

Mechanical Characteristics

Bulk Cable Weight: 22 lbs/1000ft

Max Recommended Pulling Tension: 58.3 lbs

Min Bend Radius/Minor Axis: 1.5 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

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 |
|----------------|-------|------------|----------|--------------|
| 83334E 009100 | White | Reel | 100 ft | 612825204183 |
| 83334E 009500 | White | Reel | 500 ft | 612825204206 |
| 83334E 0091000 | White | Reel | 1,000 ft | 612825204190 |

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

Product Notes

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

History

Update and Revision: Revision Number: 0.304 Revision Date: 04-28-2020

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