



**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 & voltage control |
|------------------------|---------------------------------------------------------------------------------------------------------------------|

Construction Details

Conductor

| Element      | No. of Elements | Size   | Stranding | Material             |
|--------------|-----------------|--------|-----------|----------------------|
| Conductor(s) | 3               | 22 AWG | 19x34     | SC - Silvered Copper |

Insulation

| Element      | Material                       | Nom. Thickness     | Nom. Insulation Diameter | Color Code        |
|--------------|--------------------------------|--------------------|--------------------------|-------------------|
| Conductor(s) | PTFE - Polytetrafluoroethylene | 0.010 in (0.25 mm) | 0.050 in (1.3 mm)        | White, Black, Red |

Outer Shield

| Shield Type | Material             | Coverage |
|-------------|----------------------|----------|
| Braid       | Silvered Copper (SC) | 85%      |

Outer Jacket

| Material                       | Nom. Thickness     | Nom. Diameter      |
|--------------------------------|--------------------|--------------------|
| PTFE - Polytetrafluoroethylene | 0.011 in (0.28 mm) | 0.150 in (3.81 mm) |

Overall Cable Diameter (Nominal): 0.150 in (3.81 mm)

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                |
|--------------|--------------------|-------------------------------|-------------------------------------------------|-----------------------------|
| Conductor(s) | 14.5 Ohm/1000ft    | 27.4 pF/ft (89.9 pF/m)        | 45.7 pF/ft (150 pF/m)                           | 5 Amps per conductor @ 25°C |

Voltage

| Voltage Rating |
|----------------|
| 600 V          |

Mechanical Characteristics

Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 200°C          | -65°C to +200°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 1.5 in (38 mm)  | 1.5 in (38 mm)    |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 28.5 lbs (12.9 kg) |
| Bulk Cable Weight: | 22 lbs/1000ft      |

Standards and Compliance

|                                |                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Sustainability:                | CA Prop 65                                                                                                                |
| CPR Compliance:                | CPR Euroclass: Eca                                                                                                        |
| NEMA Compliance:               | NEMA HP3                                                                                                                  |
| Military Compliance:           | MIL-W-16878/4 (Type E except stranding), (insulated conductors)                                                           |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance:      | UKCA Mark                                                                                                                 |
| APAC Compliance:               | China RoHS II (GB/T 26572-2011)                                                                                           |

Product Notes

|        |                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|
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History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.541 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #         | Color | Putup Type | Length   | UPC          | Footnote |
|----------------|-------|------------|----------|--------------|----------|
| 83334E 009100  | White | Reel       | 100 ft   | 612825204183 | E        |
| 83334E 009500  | White | Reel       | 500 ft   | 612825204206 | E        |
| 83334E 0091000 | White | Reel       | 1,000 ft | 612825204190 | E        |

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