



Product: [83319E](#)

Electronic, 2 C #22 Str SPC, TFE Ins, OA SPC Brd, TFE Tape Jkt, MIL-W-16878/4 (Type E)

[Request Sample](#)

Product Description

High Temperature Electronic, 2 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) | 2 | 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 |

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) | 0.143 in (3.63 mm) |

Overall Cable Diameter (Nominal): 0.143 in (3.63 mm)

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------|--------------------|-------------------------------|---|------------------------------|
| Conductor(s) | 14.6 Ohm/1000ft | 29.9 pF/ft (98.1 pF/m) | 49.2 pF/ft (161 pF/m) | 5 Amps per conductor at 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. |
|-------------------|-------------------|
| 1.43 in (36.3 mm) | 1.43 in (36.3 mm) |

| | |
|--------------------|-----------------|
| Max. Pull Tension: | 19 lbs (8.6 kg) |
| Bulk Cable Weight: | 17 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

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| Update and Revision: | Revision Number: 0.523 Revision Date: 01-20-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|-------|------------|----------|--------------|----------|
| 83319E 009100 | White | Reel | 100 ft | 612825203971 | E |
| 83319E 009500 | White | Reel | 500 ft | 612825347521 | E |
| 83319E 0091000 | White | Reel | 1,000 ft | 612825203988 | E |

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