



Product: [83306E](#)

Electronic, 1 C #20 Str SPC, TFE Ins, OA SPC Brd, TFE Jkt, MIL-W-16878/4 (Type E)

[Request Sample](#)

Product Description

High Temperature Electronic, 1 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 & voltage control |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|----------------------|
| Conductor(s) | 1 | 20 AWG | 19x32 | SC - Silvered Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|--------------|--------------------------------|--------------------|------------|
| Conductor(s) | PTFE - Polytetrafluoroethylene | 0.010 in (0.25 mm) | White |

Outer Shield

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

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------------|--------------------|-------------------|
| PTFE - Polytetrafluoroethylene | 0.010 in (0.25 mm) | 0.099 in (2.5 mm) |

| | |
|-----------------------------------|-------------------|
| Overall Cable Diameter (Nominal): | 0.099 in (2.5 mm) |
|-----------------------------------|-------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Shield | Max. Current |
|--------------|----------------------------|---------------------------------|-------------------------------|
| Conductor(s) | 8.9 Ohm/1000ft (29 Ohm/km) | 69 pF/ft (230 pF/m) | 6.5 Amps per conductor @ 25°C |

Voltage

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

Mechanical Characteristics

Temperature

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

| | |
|--------------------|--------------------------|
| Max. Pull Tension: | 27.8 lbs (12.6 kg) |
| Bulk Cable Weight: | 12 lbs/1000ft (18 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| 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: 0.378 Revision Date: 05-05-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|--------|--------------|----------|
| 83306E 009100 | White | Reel | 100 ft | 612825203889 | E |

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