



Product: [83307E](#)

Electronic, 1 C #18 Str SPC, TFE Ins, OA SPC Brd, TFE Jkt, MIL-W-16878/4 (Type E)

[Request Sample](#)

Product Description

High Temperature Electronic, 1 Conductor 18AWG (19x30) 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 | Number of Element | AWG | Stranding | Material |
|--------------|-------------------|-----|-----------|----------------------|
| Conductor(s) | 1 | 18 | 19x30 | SC - Silvered Copper |

Insulation

| Element | Material | Thickness | Color Code |
|--------------|--------------------------------|-----------|------------|
| Conductor(s) | PTFE - Polytetrafluoroethylene | 0.0105 in | White |

Outer Shield Material

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

Outer Jacket Material

| Material | Thickness | Nom. Diameter |
|--------------------------------|-----------|---------------|
| PTFE - Polytetrafluoroethylene | 0.010 in | 0.109 in |

| | |
|---------------------------|----------|
| Cable Diameter (Nominal): | 0.109 in |
|---------------------------|----------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Shield | Max. Current |
|--------------|--------------------|---------------------------------|-------------------------------|
| Conductor(s) | 5.7 Ohm/1000ft | 71.5 pF/ft | 8.1 Amps per conductor @ 25°C |

| | |
|-----------------------|-----------------|
| Nom Outer Shield DCR: | 15.3 Ohm/1000ft |
|-----------------------|-----------------|

Voltage

| Non-UL Voltage Rating |
|-----------------------|
| 600 V |

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. |
|-----------------|
|-----------------|

1.25 in

| | |
|--------------------|---------------|
| Max. Pull Tension: | 44.5 lbs |
| Bulk Cable Weight: | 15 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | IEC 60332-1-2 |
| 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, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| 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: 0.362 Revision Date: 02-16-2021 |
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