



Product: [83318E](#)

Electronic, 2 C #24 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 24AWG (19x36) 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      | Number of Element | AWG | Stranding | Material             |
|--------------|-------------------|-----|-----------|----------------------|
| Conductor(s) | 2                 | 24  | 19x36     | SC - Silvered Copper |

Insulation

| Element      | Material                       | Thickness [in] | Color Code   |
|--------------|--------------------------------|----------------|--------------|
| Conductor(s) | PTFE - Polytetrafluoroethylene | 0.010          | White, Black |

Outer Shield Material

| Type  | Material             | Coverage |
|-------|----------------------|----------|
| Braid | SC - Silvered Copper | 85%      |

Outer Jacket Material

| Material                       | Thickness | Diameter |
|--------------------------------|-----------|----------|
| PTFE - Polytetrafluoroethylene | 0.011 in  | 0.131 in |

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                |
|--------------|--------------------|-------------------------------|-------------------------------------------------|-----------------------------|
| Conductor(s) | 23 Ohm/1000ft      | 26.5 pF/ft                    | 42.4 pF/ft                                      | 4 Amps per conductor @ 25°C |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. |
|-----------------|
| 1.5 in          |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 31.6 lbs      |
| Bulk Cable Weight: | 14 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)                                         |
| CPR Euroclass:                  | Eca                                                                                                     |
| 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

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.327 Revision Date: 06-15-2020 |
|----------------------|--------------------------------------------------|

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