



**Product:** [83308E](#)

Electronic, 1 C #16 Str SPC, TFE Ins, OA SPC Brd, TFE Tape Jkt, MIL-W-16878/4 (Type E)

[Request Sample](#)

Product Description

High Temperature Electronic, 1 Conductor 16AWG (19x29) 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) | 1               | 16 AWG | 19x29     | SC - Silvered Copper |

Insulation

| Element      | Material                       | Nom. Thickness     | Color Code |
|--------------|--------------------------------|--------------------|------------|
| Conductor(s) | PTFE - Polytetrafluoroethylene | 0.011 in (0.28 mm) | White      |

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) | 0.120 in (3.05 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.120 in (3.05 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR         | Nom. Capacitance Cond-to-Shield | Max. Current                 |
|--------------|----------------------------|---------------------------------|------------------------------|
| Conductor(s) | 4.4 Ohm/1000ft (14 Ohm/km) | 72.5 pF/ft (238 pF/m)           | 11 Amps per conductor @ 25°C |

Voltage

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

Mechanical Characteristics

Temperature

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

|                    |                          |
|--------------------|--------------------------|
| Max. Pull Tension: | 50.2 lbs (22.8 kg)       |
| Bulk Cable Weight: | 18 lbs/1000ft (27 kg/km) |

Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Sustainability:                  | CA Prop 65  |
| Flammability / Reaction to Fire: | 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 (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)   |

Product Notes

|        |   |
|--------|---|
| Notes: | Teflon« is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.384 Revision Date: 05-05-2023 |
|----------------------|--|

Part Numbers

Variants

| Item #         | Color | Putup Type | Length   | UPC          | Footnote |
|----------------|-------|------------|----------|--------------|----------|
| 83308E 009500  | White | Reel       | 500 ft   | 612825203919 | E        |
| 83308E 0091000 | White | Reel       | 1,000 ft | 612825203902 | E        |

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