



Product: <u>83318E</u> ☑

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

Physical Characteristics (Overall)

*

| Condu | Conductor | | |
|---------|--------------|---------------------------|-------------------|
| AWG | Stranding | Material | No. of Conductors |
| 24 | 19x36 | SPC - Silver Plated Coppe | er 2 |
| Condu | ictor Count: | 2 | |
| Total N | Number of Pa | airs: 1 | |

Insulation

| Material | Material Trade Name | Nominal Wall Thickness |
|---------------------------|---------------------|------------------------|
| TFE - Tetrafluoroethylene | Teflon® | 0.01 in |

Color Chart

| Number | Color |
|--------|-------|
| 1 | White |
| 2 | Black |

Outer Shield Material

| Type | Material | Coverage [%] |
|-------|----------------------------|--------------|
| Braid | SPC - Silver Plated Copper | 85 % |

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------|---------------------|------------------|------------------------|
| TFE - Tetrafluoroethylene | Teflon® | 0.131 in | 0.011 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 23 Ohm/1000ft | 8 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 26.5 pF/ft | 42.4 pF/ft |

Inductance



Current



Voltage



Temperature Range

| Operating Temp Range: | -65°C To +200°C |
|-----------------------|-----------------|

Mechanical Characteristics

| Bulk Cable Weight: | 14 lbs/1000ft |
|----------------------------------|---------------|
| Max Recommended Pulling Tension: | 31.6 lbs |
| Min Bend Radius/Minor Axis: | 1.5 in |

Standards

| CPF | R Euroclass: | Eca |
|-------|---------------------|---|
| Milit | tary Specification: | MIL-W-16878/4 (Type E except stranding), (insulated conductors) |
| Oth | er Specification: | NEMA HP3 |

Applicable Environmental and Other Programs

| EU Directive 2000/53/EC (ELV): | Yes |
|---------------------------------------|-------------------------------|
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-01-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flammability, LS0H, Toxicity Testing

| ISO/IEC Flammability: | IEC 60332-1-2 |
|-----------------------|---------------|
| UL voltage rating: | 600 V RMS |

Plenum/Non-Plenum

| Plenum (Y/N): | No | | |
|---------------|----|--|--|
|---------------|----|--|--|

Part Number

Variants

| Item # | Color | UPC | Length | Footnote |
|----------------|-------|--------------|----------|----------|
| 83318E 009100 | White | 612825203940 | 100 ft | E |
| 83318E 0091000 | White | | 1,000 ft | E |
| 83318E 009500 | White | 612825203957 | | E |

Footnote: E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.

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: 0.297 Revision Date: 12-19-2019 |
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