

Part Number: 83307E

MIL-W -16878/4 (Type E), (1) 18 AWG (19x30) SPC,
TFE/TFE, SPC Braid Shld

Product Description

One 18 AWG stranded (19x30) silver-plated copper conductors, Teflon® (TFE) insulation, silver plated copper braid shield (85% coverage), Teflon® (TFE) jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | No. of Conductors |
|-----------------------------|-----------|----------------------------|-------------------|
| 18 | 19x30 | SPC - Silver Plated Copper | 1 |
| Total Number of Conductors: | | | 1 |

Insulation:

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

Outershield 1:

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

Outerjacket 1:

| Material | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------|---------------------|------------------|------------------------|
| TFE - Tetrafluoroethylene | Teflon® | 0.109 in | 0.01 in |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 5.7 Ohm/1000ft | 15.3 Ohm/1000ft |

Capacitance:

| Nom. Capacitance Conductor to Shield | |
|--------------------------------------|--|
| 71.5 pF/ft | |
| Min Insulation Resistance: | 100,000 Megaohms/1000 ft. @ 500 V DC MOhm*1000ft |

Impedance:

| Nominal Characteristic Impedance | |
|----------------------------------|--|
| 21 Ohm | |

Current:

| Max. Recommended Current [A] | |
|-------------------------------|--|
| 8.1 Amps per conductor @ 25°C | |

Voltage:

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

Use

| | |
|----------------------------------|----------|
| Max Recommended Pulling Tension: | 44.5 lbs |
|----------------------------------|----------|

Safety

Temperature Range

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

Mechanical Characteristics

| | |
|-----------------------------|---------|
| Min Bend Radius/Minor Axis: | 1.25 in |
|-----------------------------|---------|

Part Number

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

Standards

| | |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| MII Order #39 (China RoHS): | MII Order #39 (China RoHS) |
| Military Specification: | Military Specification |
| Other Specification: | Other Specification |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |

| | |
|-------------|------------|
| EU CE Mark: | EU CE Mark |
|-------------|------------|

History

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