



Product: [83030](#)

Lead Wire, #16 Str SPC, TFE Ins, AWM 1180

Request Sample

Product Description

High Temp Plastic Lead Wire, 16AWG (19x29) Silver Plated Copper, TFE Insulation, AWM 1180 300V 200C TYPE EE MIL-W-16878/5 1000V 200C

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | high temperature, inter-connection circuits, internal wiring of computer and electronic equipments, (Type EE) MIL-W-16878/5 applications |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|----------------------|
| Conductor(s) | 1 | 16 AWG | 19x29 | SC - Silvered Copper |

Insulation

| Material | Nom. Thickness | Nom. Insulation Diameter |
|--------------------------------|--------------------|--------------------------|
| PTFE - Polytetrafluoroethylene | 0.016 in (0.41 mm) | 0.0875 in (2.22 mm) |

| | |
|-----------------------------------|---------------------|
| Overall Cable Diameter (Nominal): | 0.0875 in (2.22 mm) |
|-----------------------------------|---------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current |
|--------------------|---|
| 4 Ohm/1000ft | Mil-Std-975M Table 3.16 (single wire): 13 A |

Voltage

| UL Voltage Rating |
|---|
| 300 V RMS (UL AWM 1180), 1000 V RMS (Mil-W-16878/5) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 200°C | -70°C To +200°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 0.87 in (22 mm) | 0.87 in (22 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 29 lbs (13 kg) |
| Bulk Cable Weight: | 11 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|-----------------|
| Environmental Suitability: | Indoor, Outdoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | VW-1 |
| AWM Compliance: | AWM 1180 |

| | |
|--------------------------------|---|
| NEMA Compliance: | HP3 |
| Military Compliance: | MIL-W-16878/5 |
| 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) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.481 Revision Date: 01-20-2023 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------------|------------|----------|--------------|----------|
| 83030 010100 | Black | Reel | 100 ft | 612825354598 | |
| 83030 010500 | Black | Reel | 500 ft | 612825353690 | S W |
| 83030 0101000 | Black | Reel | 1,000 ft | 612825399629 | S W |
| 83030 006100 | Blue, Light | Reel | 100 ft | 612825354628 | |
| 83030 0061000 | Blue, Light | Reel | 1,000 ft | 612825399605 | S W |
| 83030 0011000 | Brown | | | | S W |
| 83030 001100 | Brown | Reel | 100 ft | 612825354581 | |
| 83030 008100 | Gray | Reel | 100 ft | 612825354536 | |
| 83030 0081000 | Gray | Reel | 1,000 ft | | S W |
| 83030 005100 | Green, Dark | Reel | 100 ft | 612825354611 | |
| 83030 0051000 | Green, Dark | Reel | 1,000 ft | | S W |
| 83030 003100 | Orange | | | | |
| 83030 0031000 | Orange | Reel | 1,000 ft | 612825399582 | S W |
| 83030 002100 | Red | Reel | 100 ft | 612825354604 | |
| 83030 0021000 | Red | Reel | 1,000 ft | 612825399575 | S W |
| 83030 007100 | Violet | Reel | 100 ft | | |
| 83030 0071000 | Violet | Reel | 1,000 ft | | S W |
| 83030 009100 | White | Reel | 100 ft | 612825354574 | |
| 83030 009500 | White | Reel | 500 ft | | S W |
| 83030 0091000 | White | Reel | 1,000 ft | 612825399612 | S W |
| 83030 004100 | Yellow | | | | |
| 83030 0041000 | Yellow | Reel | 1,000 ft | 612825399599 | S W |

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