



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

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material             | No. of Conductors |
|-----|-----------|----------------------|-------------------|
| 16  | 19x29     | SC - Silvered Copper | 1                 |

Conductor Count:

1

Insulation

| Material                       | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------|------------------|------------------------|
| PTFE - Polytetrafluoroethylene | 0.0875 in        | 0.016 in               |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 4 Ohm/1000ft          |

Current

| Element                               | Max. Recommended Current [A]                |
|---------------------------------------|---------------------------------------------|
| Mil-Std-975M Table 3.16 (single wire) | Mil-Std-975M Table 3.16 (single wire): 13 A |

Voltage

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

Temperature Range

UL Temp Rating:

200°C

Operating Temp Range:

-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:

11 lbs/1000ft

Min. Bend Radius/Minor Axis:

0.36 in

Standards

UL AWM Style Compliance:

UL AWM Style 1180

NEMA Compliance:

HP3

|                      |               |
|----------------------|---------------|
| Military Compliance: | MIL-W-16878/5 |
|----------------------|---------------|

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 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                                  | Yes                           |
| CA Prop 65:                                  | Yes                           |
| MIL Order #39 (China RoHS):                  | Yes                           |

Flammability, LSOH, Toxicity Testing

|                    |                               |
|--------------------|-------------------------------|
| UL Flammability:   | VW-1                          |
| UL voltage rating: | 300 V RMS (UL AWM Style 1180) |

Plenum/Non-Plenum

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

Part Number

Variants

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

|           |                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Footnote: | S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE), W - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75'. |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.371 Revision Date: 08-27-2021 |
|----------------------|--------------------------------------------------|

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