



Product: [83029](#)

Lead Wire, #18 Str SPC, TFE Ins, AWM 1180

Request Sample

**Product Description**  
High Temp Plastic Lead Wire, 18AWG (19x30) 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               | 18 AWG | 19x30     | SC - Silvered Copper |

Insulation

| Material                       | Nom. Thickness     | Nom. Insulation Diameter |
|--------------------------------|--------------------|--------------------------|
| PTFE - Polytetrafluoroethylene | 0.015 in (0.38 mm) | 0.0765 in (1.94 mm)      |

|                                   |                     |
|-----------------------------------|---------------------|
| Overall Cable Diameter (Nominal): | 0.0765 in (1.94 mm) |
|-----------------------------------|---------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current                                 |
|--------------------|----------------------------------------------|
| 5.75 Ohm/1000ft    | Mil-Std-975M Table 3.16 (single wire): 9.2 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. |
|-----------------|-------------------|
| 0.76 in (19 mm) | 0.76 in (19 mm)   |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 24 lbs (11 kg) |
| Bulk Cable Weight: | 9 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: 0.484 Revision Date: 07-03-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color       | Putup Type | Length   | UPC          | Footnote |
|---------------|-------------|------------|----------|--------------|----------|
| 83029 010500  | Black       |            |          |              | S W      |
| 83029 010100  | Black       | Reel       | 100 ft   | 612825353706 |          |
| 83029 0101000 | Black       | Reel       | 1,000 ft | 612825399568 | S W      |
| 83029 006100  | Blue, Light |            |          | 612825354468 |          |
| 83029 006500  | Blue, Light |            |          | 612825353713 | S W      |
| 83029 0061000 | Blue, Light | Reel       | 1,000 ft | 612825354550 | S W      |
| 83029 001100  | Brown       | Reel       | 100 ft   |              |          |
| 83029 0011000 | Brown       | Reel       | 1,000 ft | 612825353737 | S W      |
| 83029 0081000 | Gray        |            |          |              | S W      |
| 83029 008100  | Gray        | Reel       | 100 ft   |              |          |
| 83029 005100  | Green, Dark | Reel       | 100 ft   | 612825354451 |          |
| 83029 005500  | Green, Dark | Reel       | 500 ft   |              | S W      |
| 83029 0051000 | Green, Dark | Reel       | 1,000 ft | 612825399551 | S W      |
| 83029 003100  | Orange      | Reel       | 100 ft   | 612825354154 |          |
| 83029 0031000 | Orange      | Reel       | 1,000 ft |              | S W      |
| 83029 002100  | Red         | Reel       | 100 ft   | 612825354178 |          |
| 83029 002500  | Red         | Reel       | 500 ft   |              | S W      |
| 83029 0021000 | Red         | Reel       | 1,000 ft | 612825399544 | S W      |
| 83029 007100  | Violet      | Reel       | 100 ft   |              |          |
| 83029 0071000 | Violet      | Reel       | 1,000 ft |              | S W      |
| 83029 009500  | White       | Reel       | 500 ft   |              | S W      |
| 83029 0091000 | White       | Reel       | 1,000 ft | 612825354567 | S W      |
| 83029 004100  | Yellow      |            |          | 612825353720 |          |
| 83029 0041000 | Yellow      | Reel       | 1,000 ft |              | S W      |

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