



**Product:** [83027](#)

Lead Wire, #20 Str SPC, TFE Ins, AWM 1180

[Request Sample](#)

**Product Description**

High Temp Plastic Lead Wire, 20AWG (19x32) 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**

| Size | Stranding | Material             |
|------|-----------|----------------------|
| 20   | 19x32     | SC - Silvered Copper |

**Insulation**

| Material                       | Nom. Thickness     | Nom. Insulation Diameter |
|--------------------------------|--------------------|--------------------------|
| PTFE - Polytetrafluoroethylene | 0.015 in (0.38 mm) | 0.068 in (1.7 mm)        |

|                                   |                   |
|-----------------------------------|-------------------|
| Overall Cable Diameter (Nominal): | 0.068 in (1.7 mm) |
|-----------------------------------|-------------------|

**Electrical Characteristics**

**Electricals**

| Max. Current                                 |
|--|
| Mil-Std-975M Table 3.16 (single wire): 6.5 A |

**Voltage**

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

**Mechanical Characteristics**

**Temperature**

| UL Temperature |
|----------------|
| 200°C          |

|                    |                              |
|--------------------|------------------------------|
| Bulk Cable Weight: | 6.20 lbs/1000ft (9.23 kg/km) |
|--------------------|------------------------------|

**Standards and Compliance**

|                                  |   |
|----------------------------------|---|
| 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) |

**History**

## Part Numbers

### Variants

| Item #        | Color       | Putup Type | Length   | UPC          |
|---------------|-------------|------------|----------|--------------|
| 83027 010500  | Black       |            |          |              |
| 83027 010100  | Black       | Reel       | 100 ft   | 612825354543 |
| 83027 0101000 | Black       | Reel       | 1,000 ft | 612825399520 |
| 83027 006100  | Blue, Light | Reel       | 100 ft   | 612825354482 |
| 83027 0061000 | Blue, Light | Reel       | 1,000 ft | 612825399513 |
| 83027 001100  | Brown       | Reel       | 100 ft   | 612825354727 |
| 83027 008100  | Gray        |            |          |              |
| 83027 005100  | Green, Dark | Reel       | 100 ft   |              |
| 83027 0051000 | Green, Dark | Reel       | 1,000 ft |              |
| 83027 0031000 | Orange      |            |          |              |
| 83027 003100  | Orange      | Reel       | 100 ft   | 612825354635 |
| 83027 002100  | Red         | Reel       | 100 ft   | 612825354758 |
| 83027 0021000 | Red         | Reel       | 1,000 ft | 612825354505 |
| 83027 007100  | Violet      | Reel       | 100 ft   |              |
| 83027 0071000 | Violet      | Reel       | 1,000 ft |              |
| 83027 009100  | White       | Reel       | 100 ft   | 612825354499 |
| 83027 0091000 | White       | Reel       | 1,000 ft | 612825354512 |
| 83027 0041000 | Yellow      |            |          |              |
| 83027 004100  | Yellow      | Reel       | 100 ft   | 612825354475 |

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