



Product: [83028](#)

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

Request Sample

### Product Description

High Temp Plastic Lead Wire, 20AWG (7x28) 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               | 20   | 7x28      | 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          |

##### Bend Radius

| Stationary Min.  | Installation Min. |
|------------------|-------------------|
| 0.28 in (7.1 mm) | 0.28 in (7.1 mm)  |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 12.6 lbs (5.72 kg) |
| Bulk Cable Weight: | 6.90 lbs/1000ft    |

#### Standards and Compliance

|                                  |               |
|----------------------------------|---------------|
| Sustainability:                  | CA Prop 65    |
| Flammability / Reaction to Fire: | VW-1          |
| AWM Compliance:                  | AWM 1180      |
| Military Compliance:             | MIL-W-16878/5 |

## History

Update and Revision: Revision Number: 0.453 Revision Date: 07-03-2024

## Part Numbers

### Variants

| Item #        | Color       | Putup Type | Length   | UPC          | Footnote |
|---------------|-------------|------------|----------|--------------|----------|
| 83028 010100  | Black       | Reel       | 100 ft   |              |          |
| 83028 0101000 | Black       | Reel       | 1,000 ft | 612825399537 | S W      |
| 83028 006100  | Blue, Light | Reel       | 100 ft   |              |          |
| 83028 0061000 | Blue, Light | Reel       | 1,000 ft |              | S W      |
| 83028 0051000 | Green, Dark |            |          |              | S W      |
| 83028 005100  | Green, Dark | Reel       | 100 ft   |              |          |
| 83028 0031000 | Orange      |            |          |              | S W      |
| 83028 003100  | Orange      | Reel       | 100 ft   |              |          |
| 83028 002100  | Red         | Reel       | 100 ft   | 612825354529 |          |
| 83028 0021000 | Red         | Reel       | 1,000 ft |              | S W      |
| 83028 009100  | White       | Reel       | 100 ft   |              |          |
| 83028 0091000 | White       | Reel       | 1,000 ft |              | S W      |

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