



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 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

Physical Characteristics (Overall)

| Conductor        |           |                      |                   |
|------------------|-----------|----------------------|-------------------|
| AWG              | Stranding | Material             | No. of Conductors |
| 20               | 19x32     | SC - Silvered Copper | 1                 |
| Conductor Count: |           | 1                    |                   |

| Insulation                     |                  |                        |
|--------------------------------|------------------|------------------------|
| Material                       | Nominal Diameter | Nominal Wall Thickness |
| PTFE - Polytetrafluoroethylene | 0.068 in         | 0.015 in               |

Electrical Characteristics

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

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

Temperature Range

|                     |       |
|---------------------|-------|
| Non-UL Temp Rating: | 200°C |
| UL Temp Rating:     | 200°C |

Mechanical Characteristics

|                              |                 |
|------------------------------|-----------------|
| Bulk Cable Weight:           | 6.20 lbs/1000ft |
| Min. Bend Radius/Minor Axis: | 0.28 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                           |
| MII Order #39 (China RoHS):                  | Yes                           |

Flammability, LSOH, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | VW-1      |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item #        | Color       | Put-Up 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 |

|           |                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: 0.357 Revision Date: 08-27-2021 |
|----------------------|--------------------------------------------------|

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