



**Product:** [83003](#)

Lead Wire, #24 Str SPC, TFE Ins, AWM 1213

[Request Sample](#)

**Product Description**

High Temp Plastic Lead Wire, 24AWG (19x36) Silver Plated Copper, TFE Insulation, AWM 1213 105C TYPE E MIL-W-16878/4 600V 200C

**Technical Specifications**

**Product Overview**

|                        |   |
|------------------------|---|
| Suitable Applications: | high temperature, inter-connection circuits, internal wiring of computer and electronic equipments, (Type E) MIL-W-16878/4 applications |
|------------------------|---|

**Physical Characteristics (Overall)**

**Conductor**

| AWG | Stranding | Material             | No. of Conductors |
|-----|-----------|----------------------|-------------------|
| 24  | 19x36     | SC - Silvered Copper | 1                 |

Conductor Count: 1

**Insulation**

| Material                       | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------|------------------|------------------------|
| PTFE - Polytetrafluoroethylene | 0.044 in         | 0.01 in                |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR |
|-----------------------|
| 24 Ohm/1000ft         |

**Current**

| Element                               | Max. Recommended Current [A]                 |
|---------------------------------------|--|
| Mil-Std-975M Table 3.16 (single wire) | Mil-Std-975M Table 3.16 (single wire): 3.3 A |

**Voltage**

| UL Voltage Rating |
|-------------------|
| 600 V RMS         |

**Temperature Range**

|                       |                 |
|-----------------------|-----------------|
| Non-UL Temp Rating:   | 200°C           |
| UL Temp Rating:       | 105°C           |
| Operating Temp Range: | -70°C To +200°C |

**Mechanical Characteristics**

|                             |              |
|-----------------------------|--------------|
| Bulk Cable Weight:          | 2 lbs/1000ft |
| Min Bend Radius/Minor Axis: | 0.18 in      |

**Standards**

|                          |                   |
|--------------------------|-------------------|
| UL AWM Style Compliance: | UL AWM Style 1213 |
| Military Compliance:     | MIL-W-16878/4     |

## 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 II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01                    |
| CA Prop 65:                           | Yes                           |
| MII Order #39 (China RoHS):           | Yes                           |

## Flammability, LSOH, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | VW-1      |
| UL voltage rating: | 600 V RMS |

## Plenum/Non-Plenum

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

## Part Number

### Variants

| Item #        | Color       | Putup Type | Length   | UPC          |
|---------------|-------------|------------|----------|--------------|
| 83003 010100  | Black       | Reel       | 100 ft   | 612825354857 |
| 83003 010500  | Black       | Reel       | 500 ft   |              |
| 83003 0101000 | Black       | Reel       | 1,000 ft | 612825353881 |
| 83003 006100  | Blue, Light | Reel       | 100 ft   |              |
| 83003 006500  | Blue, Light | Reel       | 500 ft   |              |
| 83003 0061000 | Blue, Light | Reel       | 1,000 ft |              |
| 83003 001100  | Brown       | Reel       | 100 ft   |              |
| 83003 0011000 | Brown       | Reel       | 1,000 ft | 612825399247 |
| 83003 008100  | Gray        | Reel       | 100 ft   |              |
| 83003 0081000 | Gray        | Reel       | 1,000 ft | 612825399285 |
| 83003 005100  | Green, Dark | Reel       | 100 ft   |              |
| 83003 005500  | Green, Dark | Reel       | 500 ft   |              |
| 83003 0051000 | Green, Dark | Reel       | 1,000 ft | 612825399278 |
| 83003 003100  | Orange      | Reel       | 100 ft   |              |
| 83003 003500  | Orange      | Reel       | 500 ft   |              |
| 83003 0031000 | Orange      | Reel       | 1,000 ft | 612825399254 |
| 83003 002500  | Red         |            |          |              |
| 83003 002100  | Red         | Reel       | 100 ft   |              |
| 83003 0021000 | Red         | Reel       | 1,000 ft | 612825378327 |
| 83003 007100  | Violet      | Reel       | 100 ft   |              |
| 83003 0071000 | Violet      | Reel       | 1,000 ft |              |
| 83003 009500  | White       |            |          |              |
| 83003 009100  | White       | Reel       | 100 ft   | 612825354840 |
| 83003 0091000 | White       | Reel       | 1,000 ft | 612825378334 |
| 83003 004500  | Yellow      |            |          |              |
| 83003 004100  | Yellow      | Reel       | 100 ft   |              |
| 83003 0041000 | Yellow      | Reel       | 1,000 ft | 612825399261 |

|           |   |
|-----------|---|
| Footnote: | E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.  |
| Footnote: | S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE) |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.314 Revision Date: 11-17-2020 |
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