



Product: [83004](#)

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

[Request Sample](#)

Product Description

High Temp Plastic Lead Wire, 24AWG (7x32) 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 | 7x32 | 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] |
|--|---|
| Single conductor in free air @ 30C ambient | Mil-Std-975M Table 3.16 (single wire): 10 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 |
| NEMA Compliance: | HP3 |

| | |
|----------------------|---------------|
| 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 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: | 600 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|-------------|-------------|----------|--------------|
| 83004 010100 | Black | Reel | 100 ft | |
| 83004 0101000 | Black | Reel | 1,000 ft | 612825354406 |
| 83004 006100 | Blue, Light | Reel | 100 ft | 612825354383 |
| 83004 0061000 | Blue, Light | Reel | 1,000 ft | 612825354314 |
| 83004 001100 | Brown | Reel | 100 ft | |
| 83004 0011000 | Brown | Reel | 1,000 ft | 612825399292 |
| 83004 008100 | Gray | Reel | 100 ft | 612825354390 |
| 83004 0081000 | Gray | Reel | 1,000 ft | |
| 83004 005100 | Green, Dark | Reel | 100 ft | |
| 83004 0051000 | Green, Dark | Reel | 1,000 ft | 612825354307 |
| 83004 003100 | Orange | Reel | 100 ft | 612825354376 |
| 83004 0031000 | Orange | Reel | 1,000 ft | 612825399308 |
| 83004 002100 | Red | Reel | 100 ft | |
| 83004 0021000 | Red | Reel | 1,000 ft | 612825354321 |
| 83004 007100 | Violet | Reel | 100 ft | |
| 83004 0071000 | Violet | Reel | 1,000 ft | |
| 83004 009100 | White | Reel | 100 ft | |
| 83004 0091000 | White | Reel | 1,000 ft | 612825378341 |
| 83004 004100 | Yellow | Reel | 100 ft | |
| 83004 0041000 | Yellow | Reel | 1,000 ft | 612825354369 |

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

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| Update and Revision: | Revision Number: 0.372 Revision Date: 08-27-2021 |
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