



Part Number: 83009

Lead Wire, #18 Str SPC, TFE Ins, AWM 1371 105C TYPE E

[Request Sample](#)

Product Description

High Temp Plastic Lead Wire, 18AWG (19x30) Silver Plated Copper, TFE Insulation, AWM 1371 105C TYPE E MIL-W-16878/4 600V 200C

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|----------------------------|-------------------|
| 18 | 19x30 | SCC - Silver-coated Copper | 1 |

| | |
|------------------|--------|
| Conductor Count: | 1 |
| Conductor Size: | 18 AWG |

Insulation

| Material | Nominal Diameter | Nominal Wall Thickness |
|---------------------------|------------------|------------------------|
| TFE - Tetrafluoroethylene | 0.068 in | 0.011 in |

Outer Jacket Material

| Material | Nominal Diameter |
|-----------|------------------|
| No Jacket | 0.068 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 5.75 Ohm/1000ft |

Current

| Element | Max. Recommended Current [A] |
|---------------------------------------|---|
| Mil-Std-975M Table 3.16 (single wire) | Mil-Std-975M Table 3.16 (single wire): 9.2 amps |

Voltage

| Description | Voltage Rating [V] |
|---------------|-------------------------|
| Mil-W-16878/4 | 600 V RMS Mil-W-16878/4 |

Temperature Range

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

Mechanical Characteristics

| | |
|--------------------|--------------|
| Bulk Cable Weight: | 8 lbs/1000ft |
|--------------------|--------------|

Standards

| | |
|-------------------------|--|
| UL AWM Style: | 1371 |
| Military Specification: | NEMA HP3, MIL-W-16878/4 (Except For Stranding) |

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 (CJ for Wire & Cable): | 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 | Footnote |
|---------------|-------------|----------|
| 83009 010100 | Black | |
| 83009 0101000 | Black | S W |
| 83009 010500 | Black | S W |
| 83009 006100 | Blue, Light | |
| 83009 0061000 | Blue, Light | S W |
| 83009 006500 | Blue, Light | |
| 83009 001100 | Brown | |
| 83009 0011000 | Brown | S W |
| 83009 001500 | Brown | S W |
| 83009 008100 | Gray | |
| 83009 0081000 | Gray | S W |
| 83009 008500 | Gray | |
| 83009 005100 | Green, Dark | |
| 83009 0051000 | Green, Dark | S W |
| 83009 005500 | Green, Dark | S W |
| 83009 003100 | Orange | |
| 83009 0031000 | Orange | |
| 83009 003500 | Orange | S W |
| 83009 002100 | Red | |
| 83009 0021000 | Red | S W |
| 83009 002500 | Red | S W |
| 83009 007100 | Violet | |
| 83009 0071000 | Violet | S W |
| 83009 007500 | Violet | S W |
| 83009 009100 | White | |
| 83009 0091000 | White | S W |
| 83009 009500 | White | S W |
| 83009 004100 | Yellow | |
| 83009 0041000 | Yellow | S W |
| 83009 004500 | Yellow | |

| | |
|-----------|---|
| Footnote: | S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE) |
| Footnote: | W - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75'. |

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