

# Product: 83009

## Lead Wire, #18 Str SPC, TFE Ins, AWM 1371

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

#### Product Overview

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

#### Construction Details

**Conductor**

| Element | No. of Elements | Size | Stranding | Material |
|---|---|---|---|---|
| Conductor(s) | 1 | 18 AWG | 19x30 | SC - Silvered Copper |

**Insulation**

| Material | Nom. Thickness | Nom. Insulation Diameter |
|---|---|---|
| PTFE - Polytetrafluoroethylene | 0.011 in (0.28 mm) | 0.068 in (1.7 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.068 in (1.7 mm) |

#### Electrical Characteristics

**Electricals**

| Nom. Conductor DCR | Max. Current |
|---|---|
| 5.75 Ohm/1000ft | Mil-Std-975M Table 3.16 (single wire): 9.2 A |

**Voltage**

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

#### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 200°C | -70°C To +200°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 0.68 in (17 mm) | 0.68 in (17 mm) |

| | |
|---|---|
| Max. Pull Tension: | 21 lbs (9.5 kg) |
| Bulk Cable Weight: | 8 lbs/1000ft |

#### Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor, Outdoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | VW-1 |
| AWM Compliance: | AWM 1855 |

| | |
|---|---|
| NEMA Compliance: | HP3 |
| Military Compliance: | MIL-W-16878/4 |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

## Product Notes

| | |
|---|---|
| Notes: | Notes: E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75' |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.507 Revision Date: 06-30-2023 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---|---|---|---|---|---|
| 83009 010500 | Black | | | | S W |
| 83009 010100 | Black | Reel | 100 ft | 612825354116 | |
| 83009 0101000 | Black | Reel | 1,000 ft | 612825378402 | S W |
| 83009 006500 | Blue, Light | | | | |
| 83009 006100 | Blue, Light | Reel | 100 ft | 612825354055 | |
| 83009 0061000 | Blue, Light | Reel | 1,000 ft | 612825399421 | S W |
| 83009 001500 | Brown | | | | S W |
| 83009 001100 | Brown | Reel | 100 ft | | |
| 83009 0011000 | Brown | Reel | 1,000 ft | 612825399407 | S W |
| 83009 0081000 | Gray | | | | S W |
| 83009 008500 | Gray | | | | |
| 83009 008100 | Gray | Reel | 100 ft | | |
| 83009 005500 | Green, Dark | | | | S W |
| 83009 005100 | Green, Dark | Reel | 100 ft | | |
| 83009 0051000 | Green, Dark | Reel | 1,000 ft | 612825399414 | S W |
| 83009 003500 | Orange | | | | S W |
| 83009 003100 | Orange | Reel | 100 ft | | |
| 83009 0031000 | Orange | Reel | 1,000 ft | | |
| 83009 002100 | Red | Reel | 100 ft | 612825354277 | |
| 83009 002500 | Red | Reel | 500 ft | | S W |
| 83009 0021000 | Red | Reel | 1,000 ft | 612825378396 | S W |
| 83009 0071000 | Violet | | | | S W |
| 83009 007500 | Violet | | | | S W |
| 83009 007100 | Violet | Reel | 100 ft | | |
| 83009 009100 | White | Reel | 100 ft | 612825354291 | |
| 83009 009500 | White | Reel | 500 ft | | S W |
| 83009 0091000 | White | Reel | 1,000 ft | 612825354284 | S W |
| 83009 004500 | Yellow | | | | |
| 83009 004100 | Yellow | Reel | 100 ft | 612825354062 | |
| 83009 0041000 | Yellow | Reel | 1,000 ft | | S W |

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.