



**Part Number: 83029**

Hook-Up/Lead Wire UL AWM Style 1180, (1) 18 AWG (19x30) SPC, TFE, 300V, 200°C

**Product Description**

One 18 AWG stranded (19x30) silver plated copper conductor, TFE insulation.

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

| AWG | Stranding | Material                   | No. of Conductors |
|-----|-----------|----------------------------|-------------------|
| 18  | 19x30     | SPC - Silver Plated Copper | 1                 |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

**Insulation**

| Material                  | Nominal Diameter | Nominal Wall Thickness |
|---------------------------|------------------|------------------------|
| TFE - Tetrafluoroethylene | 0.0765 in        | 0.015 in               |

**Outer Jacket Material**

| Nominal Diameter |
|------------------|
| 0.078 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 A |

**Voltage**

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

**Temperature Range**

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

**Mechanical Characteristics**

|                    |                |
|--------------------|----------------|
| Bulk Cable Weight: | 8.5 lbs/1000ft |
|--------------------|----------------|

**Standards**

|                         |  |
|-------------------------|--|
| UL AWM Style:           | 1180   |
| Military Specification: | NEMA HP3, MIL-W-16878/5 (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, LS0H, Toxicity Testing

|                  |      |
|------------------|------|
| UL Flammability: | VW-1 |
|------------------|------|

#### Part Number

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

#### Variants

| Item #        | Color       |
|---------------|-------------|
| 83029 010100  | BLACK       |
| 83029 0101000 | BLACK       |
| 83029 010500  | BLACK       |
| 83029 0061000 | BLUE, LIGHT |
| 83029 006100  | BLUE, LIGHT |
| 83029 006500  | BLUE, LIGHT |
| 83029 001100  | BROWN       |
| 83029 0011000 | BROWN       |
| 83029 008100  | GRAY        |
| 83029 0081000 | GRAY        |
| 83029 005100  | GREEN, DARK |
| 83029 0051000 | GREEN, DARK |
| 83029 005500  | GREEN, DARK |
| 83029 003100  | ORANGE      |
| 83029 0031000 | ORANGE      |
| 83029 002100  | RED         |
| 83029 0021000 | RED         |
| 83029 002500  | RED         |
| 83029 007100  | VIOLET      |
| 83029 0071000 | VIOLET      |
| 83029 0091000 | WHITE       |
| 83029 009500  | WHITE       |
| 83029 0041000 | YELLOW      |
| 83029 004100  | YELLOW      |

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