



Product: [39118](#)

Lead Wire, #18 Str TC, PPO Ins, AWM 11028

Request Sample

### Product Description

Low Temp Plastic Lead Wire, 18AWG (16x30) Tinned Copper, PPO Insulation, AWM 11028 600V 105C VW-1

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Electrical panel builders, Electrical/electronic manufacturers, Appliance manufacturers, Furniture, Computer manufacturers, Automotive companies and their sub-suppliers |
|------------------------|--|

#### Construction Details

##### Conductor

| Element      | Number of Element | Size   | Stranding | Material           |
|--------------|-------------------|--------|-----------|--------------------|
| Conductor(s) | 1                 | 18 AWG | 16x30     | TC - Tinned Copper |

##### Insulation

| Material                  | Nom. Thickness     | Nom. Insulation Diameter |
|---------------------------|--------------------|--------------------------|
| PPO - Polyphenylene Oxide | 0.012 in (0.30 mm) | 0.069 in (1.8 mm)        |

|                                   |                   |
|-----------------------------------|-------------------|
| Overall Cable Diameter (Nominal): | 0.069 in (1.8 mm) |
|-----------------------------------|-------------------|

#### Electrical Characteristics

##### Electricals

| Nom. Conductor DCR | Max. Current                              |
|--------------------|---|
| 6.5 Ohm/1000ft     | Single conductor in free air @ 30°C: 20 A |

##### Voltage

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

#### Mechanical Characteristics

##### Temperature

| UL Temperature | Operating           |
|----------------|---------------------|
| 105°C          | -40°C To +105°C Dry |

##### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 0.69 in (18 mm) | 0.69 in (18 mm)   |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 16 lbs (7.3 kg) |
| Bulk Cable Weight: | 6 lbs/1000ft    |

#### Standards and Compliance

|                                  |                 |
|----------------------------------|-----------------|
| Environmental Suitability:       | Indoor, Outdoor |
| Sustainability:                  | CA Prop 65      |
| Flammability / Reaction to Fire: | VW-1            |
| AWM Compliance:                  | AWM 11028       |

**Product Notes**

|        |               |
|--------|---------------|
| Notes: | Halogen-free. |
|--------|---------------|

**History**

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.490 Revision Date: 01-20-2023 |
|----------------------|--|

**Part Numbers**

**Variants**

| Item #        | Color                | Putup Type | Length   | UPC          |
|---------------|----------------------|------------|----------|--------------|
| 39118 010100  | Black                | Reel       | 100 ft   | 612825149446 |
| 39118 0101000 | Black                | Reel       | 1,000 ft | 612825149453 |
| 39118 0105000 | Black                | Reel       | 5,000 ft | 612825149460 |
| 39118 013100  | Blue, Dark           | Reel       | 100 ft   | 612825149477 |
| 39118 0131000 | Blue, Dark           | Reel       | 1,000 ft | 612825149484 |
| 39118 0135000 | Blue, Dark           | Reel       | 5,000 ft | 612825149491 |
| 39118 001100  | Brown                | Reel       | 100 ft   | 612825149200 |
| 39118 0011000 | Brown                | Reel       | 1,000 ft | 612825149217 |
| 39118 0015000 | Brown                | Reel       | 5,000 ft | 612825149224 |
| 39118 008100  | Gray                 | Reel       | 100 ft   | 612825149385 |
| 39118 0081000 | Gray                 | Reel       | 1,000 ft | 612825149392 |
| 39118 0085000 | Gray                 | Reel       | 5,000 ft | 612825149408 |
| 39118 005100  | Green, Dark          | Reel       | 100 ft   | 612825149323 |
| 39118 0051000 | Green, Dark          | Reel       | 1,000 ft | 612825149330 |
| 39118 0055000 | Green, Dark          | Reel       | 5,000 ft | 612825149347 |
| 39118 189100  | Green, Yellow Stripe | Reel       | 100 ft   | 612825149507 |
| 39118 1891000 | Green, Yellow Stripe | Reel       | 1,000 ft | 612825149514 |
| 39118 1895000 | Green, Yellow Stripe | Reel       | 5,000 ft | 612825149521 |
| 39118 003100  | Orange               | Reel       | 100 ft   | 612825149262 |
| 39118 0031000 | Orange               | Reel       | 1,000 ft | 612825149279 |
| 39118 0035000 | Orange               | Reel       | 5,000 ft | 612825149286 |
| 39118 002100  | Red                  | Reel       | 100 ft   | 612825149231 |
| 39118 0021000 | Red                  | Reel       | 1,000 ft | 612825149248 |
| 39118 0025000 | Red                  | Reel       | 5,000 ft | 612825149255 |
| 39118 007100  | Violet               | Reel       | 100 ft   | 612825149354 |
| 39118 0071000 | Violet               | Reel       | 1,000 ft | 612825149361 |
| 39118 0075000 | Violet               | Reel       | 5,000 ft | 612825149378 |
| 39118 009100  | White                | Reel       | 100 ft   | 612825149415 |
| 39118 0091000 | White                | Reel       | 1,000 ft | 612825149422 |
| 39118 0095000 | White                | Reel       | 5,000 ft | 612825149439 |
| 39118 004100  | Yellow               | Reel       | 100 ft   | 612825149293 |
| 39118 0041000 | Yellow               | Reel       | 1,000 ft | 612825149309 |
| 39118 0045000 | Yellow               | Reel       | 5,000 ft | 612825149316 |

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