# Product: 31518



Lead Wire, #18 Str TC, Neoprene Ins, AWM 3044

Request Sample

## Product Description

Low Temp Rubber Lead Wire, 18AWG (19x30) Tinned Copper, Neoprene Insulation, AWM 3044 CSA TYPE CL902 300V 90C

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | internal wiring of appliances, oil resistance applications, motor lead systems |

### Construction Details

**Conductor**

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

**Insulation**

| Material | Nom. Thickness | Nom. Insulation Diameter |
|---|---|---|
| Neoprene | 0.032 in (0.81 mm) | 0.109 in (2.77 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.109 in (2.77 mm) |

### Electrical Characteristics

**Electricals**

| Nom. Conductor DCR | Max. Current |
|---|---|
| 7.06 Ohm/1000ft | 22.4 Amps per Conductor at 30ºC |

**Voltage**

| UL Voltage Rating |
|---|
| 300 V (AWM 3044) |

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 90°C | -30°C To +90°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 1.09 in (27.7 mm) | 1.09 in (27.7 mm) |

| | |
|---|---|
| Max. Pull Tension: | 24.7 lbs (11.2 kg) |
| Recommended Max Baking Cycles: | 24 Hours @ 300°F (149°C) ~ 8 Hours @ 325°F (163°C) ~ 15 Minutes @ 450°F (232°C) |
| Bulk Cable Weight: | 10 lbs/1000ft |

### Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor, Outdoor, Oil Resistance |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | Horizontal flame |

| | |
|---|---|
| AWM Compliance: | AWM 3044 |
| CEC / C(UL) Compliance: | CL-902 |
| European Directive Compliance: | 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: | 24 Hours @ 300°F (149°C) ~ 8 Hours @ 325°F (163°C) ~ 15 Minutes @ 450°F (232°C) |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.499 Revision Date: 01-20-2023 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---|---|---|---|---|---|
| 31518 010500 | Black | Reel | 500 ft | 612825142416 | F |
| 31518 0102000 | Black | Reel | 2,000 ft | 612825142409 | C 1 |
| 31518 0105000 | Black | Reel | 5,000 ft | 612825142423 | C I U Z |
| 31518 0062000 | Blue, Light | Reel | 2,000 ft | 612825142379 | I U |
| 31518 0065000 | Blue, Light | Reel | 5,000 ft | 612825142386 | C I U Z |
| 31518 0015000 | Brown | Reel | 5,000 ft | 612825142324 | C I U Z |
| 31518 005500 | Green, Dark | Reel | 500 ft | 612825142355 | F |
| 31518 0055000 | Green, Dark | Reel | 5,000 ft | 612825142362 | C I U Z |
| 31518 0025000 | Red | Reel | 5,000 ft | 612825142331 | C I U Z |
| 31518 0095000 | White | Reel | 5,000 ft | 612825142393 | C I U Z |
| 31518 0045000 | Yellow | Reel | 5,000 ft | 612825142348 | C I U Z |

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