



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 30°C |

| 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: 0.500 Revision Date: 07-03-2024 |
|----------------------|--|

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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