


Product: [31506](#)
Lead Wire, #6 Str TC, Neoprene Ins, AWM 3048
[Request Sample](#)
Product Description

Low Temp Rubber Lead Wire, 6AWG (84x25) Tinned Copper, Neoprene Insulation, AWM 3048 600V 90C

Technical Specifications
Product Overview

Suitable Applications:	internal wiring of appliances, oil resistance applications, motor lead systems
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Construction Details
Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	6 AWG	84x25	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
Neoprene	0.063 in (1.6 mm)	0.343 in (8.71 mm)

Overall Cable Diameter (Nominal): 0.343 in (8.71 mm)

Electrical Characteristics
Electricals

Nom. Conductor DCR	Max. Current
0.446 Ohm/1000ft	120 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V (AWM 3048)

Mechanical Characteristics
Temperature

UL Temperature	Operating
90°C	-30°C to +90°C

Bend Radius

Stationary Min.	Installation Min.
3.43 in (87.1 mm)	3.43 in (87.1 mm)

Max. Pull Tension: 304 lbs (138 kg)

Bulk Cable Weight: 127 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	Horizontal flame
AWM Compliance:	AWM 3048

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: Recommended Maximum Baking Cycles: 24 Hours @ 300°F (149°C) ~ 8 Hours @ 325°F (163°C) ~ 15 Minutes @ 450°F (232°C)

History

Update and Revision: Revision Number: 0.477 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
31506 010500	Black	Reel	500 ft	612825142119	C F

Footnote: C - CRATE REEL PUT-UP., F - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 50'.

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