



**Product:** [31518](#) 

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

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## 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
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### 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)
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### 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)
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)
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History

Update and Revision:	Revision Number: 0.502 Revision Date: 09-07-2025
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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

Footnote:	C - CRATE REEL PUT-UP., I - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 200'. U - TOPCOAT ADDERS ON STOCK SOLID COLORS. MINIMUM ORDER 10,000' PER COLOR COMBINATION. (SEE TOPCOAT ADDER TABLE), Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN., 1 - FINAL PUT-UP LENGTH MAY VARY -20% TO +10% FROM LENGTH SHOWN., F - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 50'.
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