




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

Lead Wire, #18 Str TC, Neoprene Ins, AWM 3044 CAS TYPE CL902

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## Product Description

Lead Wire, 18AWG (16x30) Tinned Copper, Neoprene Insulation, AWM 3044 CAS TYPE CL902 300V 90C

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	1

Conductor Count:	1
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#### Insulation

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness	Min. Average Wall Thickness
Neoprene	Neoprene	0.109 in	0.0325 in	0.03 in

#### Outer Jacket Material

Nominal Diameter
0.109 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
6 Ohm/1000ft

#### Current

Element	Max. Recommended Current [A]
Single Conductor in Free Air @ 30C Ambient	Single Conductor in Free Air @ 30C Ambient 18 amps

#### Voltage

UL Description	UL Voltage Rating
UL AWM 3044	300 V RMS

### Temperature Range

UL Temp Rating:	90°C Dry, 60°C Oil
Operating Temp Range:	-30°C To +90°C

### Mechanical Characteristics

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

UL AWM Style:	3044
CSA Rating:	300 V RMS, 90°C
CSA Type:	CL902

Military Specification:	N/A
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Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	Horizontal
Other Flammability:	UL Horizontal Flame
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

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

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

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: 0.293 Revision Date: 04-28-2020
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