



Product: [83009](#)

Lead Wire, #18 Str SPC, TFE Ins, AWM 1371 105C TYPE E

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Product Description

High Temp Plastic Lead Wire, 18AWG (19x30) Silver Plated Copper, TFE Insulation, AWM 1371 105C TYPE E MIL-W-16878/4 600V 200C

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
18	19x30	SC - Silvered Copper	1

Conductor Count: 1

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	0.068 in	0.011 in

Outer Jacket Material

Nominal Diameter
0.068 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
5.75 Ohm/1000ft

Current

Element	Max. Recommended Current [A]
Mil-Std-975M Table 3.16 (single wire)	Mil-Std-975M Table 3.16 (single wire): 9.2 amps

Voltage

Description	Voltage Rating [V]
Mil-W-16878/4	600 V RMS Mil-W-16878/4

Temperature Range

UL Temp Rating:	105°C
Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	8 lbs/1000ft
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Standards

UL AWM Style:	1371
Military Specification:	NEMA HP3, MIL-W-16878/4 (Except For Stranding)

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 CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	600 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83009 010500	Black			
83009 010100	Black	Reel	100 ft	612825354116
83009 0101000	Black	Reel	1,000 ft	612825378402
83009 006500	Blue, Light			
83009 006100	Blue, Light	Reel	100 ft	612825354055
83009 0061000	Blue, Light	Reel	1,000 ft	612825399421
83009 001500	Brown			
83009 001100	Brown	Reel	100 ft	
83009 0011000	Brown	Reel	1,000 ft	612825399407
83009 0081000	Gray			
83009 008500	Gray			
83009 008100	Gray	Reel	100 ft	
83009 005500	Green, Dark			
83009 005100	Green, Dark	Reel	100 ft	
83009 0051000	Green, Dark	Reel	1,000 ft	612825399414
83009 003500	Orange			
83009 003100	Orange	Reel	100 ft	
83009 0031000	Orange	Reel	1,000 ft	
83009 002100	Red	Reel	100 ft	612825354277
83009 002500	Red	Reel	500 ft	
83009 0021000	Red	Reel	1,000 ft	612825378396
83009 0071000	Violet			
83009 007500	Violet			
83009 007100	Violet	Reel	100 ft	
83009 009100	White	Reel	100 ft	612825354291
83009 009500	White	Reel	500 ft	
83009 0091000	White	Reel	1,000 ft	612825354284
83009 004500	Yellow			
83009 004100	Yellow	Reel	100 ft	612825354062
83009 0041000	Yellow	Reel	1,000 ft	

Footnote:	S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE)
Footnote:	W - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75'.

History

Update and Revision:	Revision Number: 0.284 Revision Date: 04-28-2020
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