



Product: [83030](#)

Lead Wire, #16 Str SPC, TFE Ins, AWM 1180

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Product Description

High Temp Plastic Lead Wire, 16AWG (19x29) Silver Plated Copper, TFE Insulation, AWM 1180 300V 200C TYPE EE MIL-W-16878/5 1000V 200C

Technical Specifications

Product Overview

Suitable Applications:	high temperature, inter-connection circuits, internal wiring of computer and electronic equipments, (Type EE) MIL-W-16878/5 applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
16	19x29	SC - Silvered Copper	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	0.0875 in	0.016 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
4 Ohm/1000ft

Current

Element	Max. Recommended Current [A]
Mil-Std-975M Table 3.16 (single wire)	Mil-Std-975M Table 3.16 (single wire): 13 A

Voltage

UL Description	UL Voltage Rating
UL AWM 1180	300 V RMS
Mil-W-16878/5	1000 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	11 lbs/1000ft
Min Bend Radius/Minor Axis:	0.36 in

Standards

UL AWM Style Compliance:	UL AWM Style 1180
NEMA Compliance:	HP3

Military Compliance:	MIL-W-16878/5
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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 CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	300 V RMS (UL AWM Style 1180)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83030 010100	Black	Reel	100 ft	612825354598
83030 010500	Black	Reel	500 ft	612825353690
83030 0101000	Black	Reel	1,000 ft	612825399629
83030 006100	Blue, Light	Reel	100 ft	612825354628
83030 0061000	Blue, Light	Reel	1,000 ft	612825399605
83030 0011000	Brown			
83030 001100	Brown	Reel	100 ft	612825354581
83030 008100	Gray	Reel	100 ft	612825354536
83030 0081000	Gray	Reel	1,000 ft	
83030 005100	Green, Dark	Reel	100 ft	612825354611
83030 0051000	Green, Dark	Reel	1,000 ft	
83030 003100	Orange			
83030 0031000	Orange	Reel	1,000 ft	612825399582
83030 002100	Red	Reel	100 ft	612825354604
83030 0021000	Red	Reel	1,000 ft	612825399575
83030 007100	Violet	Reel	100 ft	
83030 0071000	Violet	Reel	1,000 ft	
83030 009100	White	Reel	100 ft	612825354574
83030 009500	White	Reel	500 ft	
83030 0091000	White	Reel	1,000 ft	612825399612
83030 004100	Yellow			
83030 0041000	Yellow	Reel	1,000 ft	612825399599

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: 0.312 Revision Date: 11-17-2020
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