



Product: [83029](#) 

Lead Wire, #18 Str SPC, TFE Ins, AWM 1180

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Product Description
High Temp Plastic Lead Wire, 18AWG (19x30) 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
18	19x30	SC - Silvered Copper	1
Conductor Count:		1	

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	0.0765 in	0.015 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 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:	8.5 lbs/1000ft
Min. Bend Radius/Minor Axis:	0.32 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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
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	Put-Up Type	Length	UPC
83029 010500	Black			
83029 010100	Black	Reel	100 ft	612825353706
83029 0101000	Black	Reel	1,000 ft	612825399568
83029 006100	Blue, Light			612825354468
83029 006500	Blue, Light			612825353713
83029 0061000	Blue, Light	Reel	1,000 ft	612825354550
83029 001100	Brown	Reel	100 ft	
83029 0011000	Brown	Reel	1,000 ft	612825353737
83029 0081000	Gray			
83029 008100	Gray	Reel	100 ft	
83029 005100	Green, Dark	Reel	100 ft	612825354451
83029 005500	Green, Dark	Reel	500 ft	
83029 0051000	Green, Dark	Reel	1,000 ft	612825399551
83029 003100	Orange	Reel	100 ft	612825354154
83029 0031000	Orange	Reel	1,000 ft	
83029 002100	Red	Reel	100 ft	612825354178
83029 002500	Red	Reel	500 ft	
83029 0021000	Red	Reel	1,000 ft	612825399544
83029 007100	Violet	Reel	100 ft	
83029 0071000	Violet	Reel	1,000 ft	
83029 009500	White	Reel	500 ft	
83029 0091000	White	Reel	1,000 ft	612825354567
83029 004100	Yellow			612825353720
83029 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), W - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75'.
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History

Update and Revision:	Revision Number: 0.373 Revision Date: 08-27-2021
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