



Product: [83027](#)

Lead Wire, #20 Str SPC, TFE Ins, AWM 1180

Request Sample

Product Description

High Temp Plastic Lead Wire, 20AWG (19x32) 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
20	19x32	SC - Silvered Copper	1
Conductor Count:		1	

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	0.068 in	0.015 in

Electrical Characteristics

Current	
Max. Recommended Current [A]	
Mil-Std-975M Table 3.16 (single wire): 6.5 A	

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

Temperature Range

Non-UL Temp Rating:	200°C
UL Temp Rating:	200°C

Mechanical Characteristics

Bulk Cable Weight:	6.20 lbs/1000ft
Min. Bend Radius/Minor Axis:	0.28 in

Standards

UL AWM Style Compliance:	UL AWM Style 1180
NEMA Compliance:	HP3
Military Compliance:	MIL-W-16878/5

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
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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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
83027 010500	Black			
83027 010100	Black	Reel	100 ft	612825354543
83027 0101000	Black	Reel	1,000 ft	612825399520
83027 006100	Blue, Light	Reel	100 ft	612825354482
83027 0061000	Blue, Light	Reel	1,000 ft	612825399513
83027 001100	Brown	Reel	100 ft	612825354727
83027 008100	Gray			
83027 005100	Green, Dark	Reel	100 ft	
83027 0051000	Green, Dark	Reel	1,000 ft	
83027 0031000	Orange			
83027 003100	Orange	Reel	100 ft	612825354635
83027 002100	Red	Reel	100 ft	612825354758
83027 0021000	Red	Reel	1,000 ft	612825354505
83027 007100	Violet	Reel	100 ft	
83027 0071000	Violet	Reel	1,000 ft	
83027 009100	White	Reel	100 ft	612825354499
83027 0091000	White	Reel	1,000 ft	612825354512
83027 0041000	Yellow			
83027 004100	Yellow	Reel	100 ft	612825354475

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: 0.357 Revision Date: 08-27-2021
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