



**Product:** [83027](#)

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

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**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
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**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 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, LS0H, 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	Putup 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)
Footnote:	W - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75'.

## History

Update and Revision:	Revision Number: 0.301 Revision Date: 02-16-2021
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