



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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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	1	20 AWG	19x32	SC - Silvered Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
PTFE - Polytetrafluoroethylene	0.015 in (0.38 mm)	0.068 in (1.7 mm)

Overall Cable Diameter (Nominal):	0.068 in (1.7 mm)
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
4.0 Ohm/1000ft	Mil-Std-975M Table 3.16 (single wire): 6.5 A

Voltage

UL Voltage Rating
300 V RMS (UL AWM 1180), 1000 V RMS (Mil-W-16878/5)

Mechanical Characteristics

Temperature

UL Temperature	Operating
200°C	-70°C To +200°C

Bend Radius

Stationary Min.	Installation Min.
0.68 in (17 mm)	0.68 in (17 mm)

Max. Pull Tension:	16 lbs (7.3 kg)
Bulk Cable Weight:	6 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	VW-1
AWM Compliance:	AWM 1180

NEMA Compliance:	HP3
Military Compliance:	MIL-W-16878/5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

History

Update and Revision:	Revision Number: 0.434 Revision Date: 06-30-2022
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Part Numbers

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

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