Belden



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

Construction Details

Conductor

Element	No. of Elements	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)

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: 0.471 Revision Date: 02-20-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83027 010500	Black				
83027 010100	Black	Reel	100 ft	612825354543	
83027 0101000	Black	Reel	1,000 ft	612825399520	S W
83027 006100	Blue, Light	Reel	100 ft	612825354482	
83027 0061000	Blue, Light	Reel	1,000 ft	612825399513	S W
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		S W
83027 0031000	Orange				S W
83027 003100	Orange	Reel	100 ft	612825354635	
83027 002100	Red	Reel	100 ft	612825354758	
83027 0021000	Red	Reel	1,000 ft	612825354505	S W
83027 007100	Violet	Reel	100 ft		
83027 0071000	Violet	Reel	1,000 ft		S W
83027 009100	White	Reel	100 ft	612825354499	
83027 0091000	White	Reel	1,000 ft	612825354512	S W
83027 0041000	Yellow				S W
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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