

Product: 83029

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

Request Sample

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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	18 AWG	19x30	SC - Silvered Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
PTFE - Polytetrafluoroethylene	0.015 in (0.38 mm)	0.0765 in (1.94 mm)

Overall Cable Diameter (Nominal):	0.0765 in (1.94 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
5.75 Ohm/1000ft	Mil-Std-975M Table 3.16 (single wire): 9.2 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.
0.76 in (19 mm)	0.76 in (19 mm)

Max. Pull Tension:	24 lbs (11 kg)
Bulk Cable Weight:	9 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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.483 Revision Date: 01-20-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83029 010500	Black				S W
83029 010100	Black	Reel	100 ft	612825353706	
83029 0101000	Black	Reel	1,000 ft	612825399568	S W
83029 006100	Blue, Light			612825354468	
83029 006500	Blue, Light			612825353713	S W
83029 0061000	Blue, Light	Reel	1,000 ft	612825354550	S W
83029 001100	Brown	Reel	100 ft		
83029 0011000	Brown	Reel	1,000 ft	612825353737	S W
83029 0081000	Gray				S W
83029 008100	Gray	Reel	100 ft		
83029 005100	Green, Dark	Reel	100 ft	612825354451	
83029 005500	Green, Dark	Reel	500 ft		S W
83029 0051000	Green, Dark	Reel	1,000 ft	612825399551	S W
83029 003100	Orange	Reel	100 ft	612825354154	
83029 0031000	Orange	Reel	1,000 ft		S W
83029 002100	Red	Reel	100 ft	612825354178	
83029 002500	Red	Reel	500 ft		S W
83029 0021000	Red	Reel	1,000 ft	612825399544	S W
83029 007100	Violet	Reel	100 ft		
83029 0071000	Violet	Reel	1,000 ft		S W
83029 009500	White	Reel	500 ft		S W
83029 0091000	White	Reel	1,000 ft	612825354567	S W
83029 004100	Yellow			612825353720	
83029 0041000	Yellow	Reel	1,000 ft		S W

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