



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

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.