BELDEN
SENDING ALL THE RIGHT SIGNALS

Product: 83023

Lead Wire, #24 Str SPC, TFE Ins, AWM 1180

Request Sample

Product Description

High Temp Plastic Lead Wire, 24AWG (19x36) 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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
24	19x36	SC - Silvered Copper	1

Conductor Count:	1

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	0.054 in	0.015 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
24 Ohm/1000ft

Current

Element	Max. Recommended Current [A]
Single conductor in free air @ 30C ambient	Mil-Std-975M Table 3.16 (single wire): 3.3 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
Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	3 lbs/1000ft
Min Bend Radius/Minor Axis:	0.22 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
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

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83023 010100	Black	Reel	100 ft	
83023 0101000	Black	Reel	1,000 ft	612825399469
83023 006100	Blue, Light	Reel	100 ft	
83023 0061000	Blue, Light	Reel	1,000 ft	
83023 001100	Brown	Reel	100 ft	
83023 0011000	Brown	Reel	1,000 ft	
83023 008100	Gray	Reel	100 ft	
83023 0081000	Gray	Reel	1,000 ft	612825399452
83023 005100	Green, Dark	Reel	100 ft	
83023 0051000	Green, Dark	Reel	1,000 ft	
83023 003100	Orange	Reel	100 ft	
83023 0031000	Orange	Reel	1,000 ft	
83023 002100	Red	Reel	100 ft	
83023 0021000	Red	Reel	1,000 ft	
83023 007100	Violet	Reel	100 ft	
83023 0071000	Violet	Reel	1,000 ft	
83023 009100	White	Reel	100 ft	612825353980
83023 0091000	White	Reel	1,000 ft	
83023 004100	Yellow	Reel	100 ft	
83023 0041000	Yellow	Reel	1,000 ft	

Footnote:	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.
Footnote:	S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE)

History

Update and Revision:	Revision Number: 0.315 Revision Date: 11-17-2020

© 2021 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.