



**Product:** [83023](#)

Lead Wire, #24 Str SPC, TFE Ins, AWM 1180 300V 200C TYPE EE

[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**

**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	3.3 A

**Voltage**

Description	UL Voltage Rating	Voltage Rating [V]
Mil-W-16878	300 V	1000 V (Mil Spec)

**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
--------------------	--------------

**Standards**

UL AWM Style:	1180
Military Specification:	NEMA HP3, MIL-W-16878/5 (Except For Stranding)

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

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: 0.281 Revision Date: 04-08-2020
----------------------	--

© 2020 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.