

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

83023 Hook-up/Lead - UL AWM Style 1180

For more Information
please call

1-800-Belden1



General Description:

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
1	24	19x36	SPC - Silver Plated Copper

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
TFE - Tetrafluoroethylene	0.381

Overall Insulation

Overall Cable

Overall Nominal Diameter: 1.372 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 4.465 Kg/Km

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating:	300 V RMS, 200°C
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
Military Specification:	NEMA HP3, MIL-W-16878/5 (Except for Stranding)
MIL Spec Rating:	1000 V, 200°C

Flame Test

UL Flame Test: VW-1

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
78.744

Max. Operating Voltage - Other:

Voltage	Description
1000 V	Mil-W-16878

Max. Recommended Current:

Description	Current
-------------	---------

Single conductor in free air @ 30C ambient	10 A
--	------

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83023 001100	100 FT	0.200 LB	BROWN	E	#24 STR TFE BRN
83023 0011000	1,000 FT	4.000 LB	BROWN	E S	#24 STR TFE BRN
83023 002100	100 FT	0.200 LB	RED	E	#24 STR TFE RED
83023 0021000	1,000 FT	4.000 LB	RED	E S	#24 STR TFE RED
83023 003100	100 FT	0.200 LB	ORANGE	E	124 STR TFE ORG
83023 0031000	1,000 FT	4.000 LB	ORANGE	E S	#24 STR TFE ORG
83023 004100	100 FT	0.200 LB	YELLOW	E	#24 STR TFE YEL
83023 0041000	1,000 FT	4.000 LB	YELLOW	E S	#24 STR TFE YEL
83023 005100	100 FT	0.200 LB	GREEN, DARK	E	#24 STR TFE GRNDK
83023 0051000	1,000 FT	4.000 LB	GREEN, DARK	E S	#24 STR TFE GRNDK
83023 006100	100 FT	0.200 LB	BLUE, LIGHT	E	#24 STR TFE BLULT
83023 0061000	1,000 FT	4.000 LB	BLUE, LIGHT	E S	#24 STR TFE BLULT
83023 007100	100 FT	0.200 LB	VIOLET	E	#24 STR TFE VIO
83023 0071000	1,000 FT	4.000 LB	VIOLET	E S	#24 STR TFE VIO
83023 008100	100 FT	0.200 LB	GRAY	E	#24 STR TFE GRY
83023 0081000	1,000 FT	4.000 LB	GRAY	E S	#24 STR TFE GRY
83023 009100	100 FT	0.200 LB	WHITE	E	#24 STR TFE WHT
83023 0091000	1,000 FT	4.000 LB	WHITE	E S	#24 STR TFE WHT
83023 010100	100 FT	0.200 LB	BLACK	E	#24 STR TFE BLK
83023 0101000	1,000 FT	4.000 LB	BLACK		#24 STR TFE BLK

Notes:

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'
S = STRIPING ADDERS FOR TYPES E AND EE: 123 STRIPES. MINIMUM ORDER 10

Revision Number: 2 Revision Date: 05-10-2013

© 2015 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.