

## 29513 Composite - 1000V UL Flexible Motor Supply Cable



For more Information  
please call

1-800-Belden1



### General Description:

1 pr.(Signal)-16 AWG stranded (26x30) TC cond., XLPE insul., Beldfoil® shield (100% c; 3 cond.(VFD)  
plus 1 ground wire-10 AWG stranded (105x30) TC cond., XLPE insul., Duofoil® and TC braid Shield (100%  
acdrain, PVC jacket.

### Usage (Overall)

Suitable Applications:

AC Motor Drive, VFD, Variable Frequency Drive

### Twisted Pair

#### Physical Characteristics

##### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	26x30	TC - Tinned Copper

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
XLPE - Cross Linked Polyethylene	0.030

Twisted Pair Color Code Chart:

Number	Color
1	Black and White

##### Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
18	19x30	TC - Tinned Copper

### Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
34.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.000

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.990

### Multi Conductor

#### Physical Characteristics

##### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
1	10	105x30	TC - Tinned Copper

##### Ground Wire

Ground Wire (Y/N):

Yes

Ground Wire Material:

AWG	Stranding	Conductor Material	Insulation Material
10	105x30	TC - Tinned Copper	PVC - Polyvinyl Chloride

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
---------------------	------------

## 29513 Composite - 1000V UL Flexible Motor Supply Cable

XLPE - Cross Linked Polyethylene	0.045
----------------------------------	-------

## Insulation Color Code Chart:

Number	Color
1	Black #1
2	Black #2
3	Black #3
4	Green/Yellow

## Outer Shield

## Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
2		Braid	TC - Tinned Copper	85.000

## Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
10	105x30	TC - Tinned Copper

## Electrical Characteristics

## Nom. Inductance:

Inductance (µH/ft)
0.184

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
53.000

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
29.000

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
0.988

## Physical Characteristics (Overall)

## Conductor

## Outer Jacket

## Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.105

Outer Jacket Ripcord: Yes

## Overall Cable

Overall Nominal Diameter: 0.985 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C

Max. Recommended Pulling Tension: 718 lbs.

Min. Bend Radius/Minor Axis: 9.900 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC(UL) Specification: RHW-2 Singles, TC-ER, XHHW-2

NEC Articles: 336 - ER

CEC/C(UL) Specification: 600V Type CIC TC

CSA Specification: 1000 V AWM I/II A/B

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): 09/21/2006

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire &amp; Cable): Yes

## 29513 Composite - 1000V UL Flexible Motor Supply Cable

MII Order #39 (China RoHS):

Yes

Other Specification:

1000V UL Flexible Motor Supply Cable

## Flame Test

UL Flame Test:

UL1685 UL Loading

CSA Flame Test:

FT4

IEEE Flame Test:

1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)

## Suitability

Suitability - Indoor:

Yes

Suitability - Outdoor:

Yes

Suitability - Burial:

Yes

Sunlight Resistance:

Yes

## Plenum/Non-Plenum

Plenum (Y/N):

No

## Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

Voltage

1000 V RMS (Flexible Motor Supply Cable)

Max. Operating Voltage - Other:

Voltage

1000 V RMS (CSA AWM I/II A/B)

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29513 010100	100 FT	89.300 LB	BLACK	C	COMPOSITE CABLE SH PVC
29513 0101000	1,000 FT	563.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29513 0103000	3,000 FT	1,671.000 LB	BLACK	C	COMPOSITE CABLE SH PVC
29513 010500	500 FT	286.500 LB	BLACK	C	COMPOSITE CABLE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 08-20-2013

© 2016 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 2014/35/EU).