



Part Number: 29511

1000V UL Flex Motor VFD, (1 pr) 16 AWG (26x30) TC, (3) 14 AWG (41x30) TC+Grd, XLPE/PVC, Foil+TC Braid Shld, TC-ER

Product Description

One 16 AWG signal pair stranded (26x30) tinned copper conductor, cross-linked polyethylene insulation, Beldfoil® shield (100% coverage), three 14 AWG stranded (41x30) tinned copper conductor plus ground wire, cross-linked polyethylene insulation, Duofoil® tape (100% coverage) plus tinned copper braid shield (85% coverage), PVC jacket.

Product Specifications

Technical Specifications

Suitable Applications:	AC Motor drives, VFD, Variable Frequency drives
-------------------------------	---

Construction and Dimensions

Conductor:

Element	AWG	Stranding	Material	No. of Conductors	No. of Pairs
XLPE	16	26x30	TC - Tinned Copper	3	1
	14	41x30	TC - Tinned Copper		
Ground Wire	14	41x30	TC - Tinned Copper		

Total Number of Conductors:	5
------------------------------------	---

Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.03 in
PVC - Polyvinyl Chloride	0.045 in
XLPE - Cross Linked Polyethylene	

Color Chart 1:

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

Innershield:

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	18	19x30 mm
	TC - Tinned Copper				

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %	TC - Tinned Copper	14	41x30 mm
Braid	2	TC - Tinned Copper		85 %			

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.82 in	0.075 in	Yes

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Inner Shield DCR
4 Ohm/1000ft	4.99 Ohm/1000ft
2.52 Ohm/1000ft	

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
34 pF/ft	42 pF/ft
23 pF/ft	

Inductance:

Nominal Inductance
0.213 µH/ft

Voltage:

UL Voltage Rating	Voltage Rating [V]
1000 V RMS (Flexible Motor Supply Cable)	1000 V RMS (CSA AWM I/II A/B)

Use

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	368 lbs

Safety

CSA Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1685 UL Loading

Temperature Range

Mechanical Characteristics

Min Bend Radius/Minor Axis:	8.2 in
-----------------------------	--------

Part Number

Plenum (Y/N):	No
---------------	----

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
CSA AWM Specification:	CSA Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC Articles:	NEC Articles
NEC/(UL) Specification:	NEC/(UL) Specification
Other Specification:	Other Specification
PMSHA Specification:	PMSHA Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Product Variants

Part Number	Color	Put-Up Type	Length
29511 0101000	BLACK	Reel	1000 ft
29511 010100	BLACK	Reel	100 ft
29511 0105000	BLACK	Reel	5000 ft
29511 010500	BLACK	Reel	500 ft

© 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 73/23/EEC), as amended by directive 93/68/EEC.