



## Part Number: 29510

VFD 300% Gnd, 1 Pr #16+16 Str TC, XLPO+PVC Ins M4, OS+TC Brd, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable

[Request Sample](#)

### Product Description

Belden 300% Ground Flexible VFD, 1 Pair 16+16AWG (26x30) Tinned Copper, XLPO+PVC Insulation M4 Color Code, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V CSA AWM I/II A/B 600V CIC TC SUN RES OIL RES DIR BUR

### Technical Specifications

#### Product Overview

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

#### Physical Characteristics (Overall)

##### Conductor

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

Conductor Count:	6
Conductor Size:	16 AWG

##### Insulation

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.046 in
XLPE - Cross Linked Polyethylene	0.032 in
PVC - Polyvinyl Chloride	0.047 in

##### Color Chart

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

##### Inner Shield Material

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

##### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %	TC - Tinned Copper	16	26x30 mm
Braid	2	TC - Tinned Copper		85 %			

##### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.75 in	0.075 in	Yes

## Electrical Characteristics

### Conductor DCR

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

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
21.0 pF/ft	38 pF/ft
34 pF/ft	

### Inductance

Nominal Inductance
0.23 $\mu$ H/ft

### Voltage

UL Voltage Rating
1000 V RMS
600 V RMS

## Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-40°C To +90°C

## Mechanical Characteristics

Max Recommended Pulling Tension:	272 lbs
Min Bend Radius/Minor Axis:	7.5 in

## Standards

NEC Articles:	336 - ER
NEC/(UL) Specification:	TC-ER
CEC/C(UL) Specification:	CIC, TC
CSA AWM Specification:	AWM I/II A/B
PMSHA Specification:	P-07-KA070003
Other Specification:	1000V UL Flexible Motor Supply Cable

## 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):	2006-09-21
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202, 383

UL voltage rating:	1000 V RMS
--------------------	------------

**Plenum/Non-Plenum**

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

**Part Number**

**Variants**

Item #	Color	Footnote
29510 010100	Black	C
29510 0101000	Black	C
29510 010500	Black	C
29510 0105000	Black	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2019 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.