



Product: [29540](#)

VFD 300% Gnd, 3C+G #6 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/3-#12 TC Drains, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable

[Request Sample](#)

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 6AWG (7x19x27) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/3-12AWG Tinned Copper Drains, Black PVC Outer Jacket, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor	6	7x19x27	TC - Tinned Copper	3
Ground	6	7x19x27	TC - Tinned Copper	1

Conductor Count:	3
------------------	---

Insulation

Material	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.072 in
XLP, XLPO, XLPE (Thermoset)	

Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	1	Alum / Poly / Alum	Duofoil®	100%	TC - Tinned Copper	12 (4x)
Braid	2	Tinned Copper (TC)		85%		

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.049 in	0.095 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.41 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
40 pF/ft	72 pF/ft

Inductance

Nominal Inductance
0.171 µH/ft

Impedance

Nominal Characteristic Impedance
60 Ohm

Current

Max. Recommended Current [A]
75 Amps per Conductor at 30°C

Voltage

Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	2000 V RMS	1000 V RMS
	1000 V RMS	

Temperature Range

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

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	811 lbs/1000ft
Max. Pull Tension:	1220 lbs
Min Bend Radius/Minor Axis:	10.6 in

Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC-ER, RHW-2, WTTC
CEC/C(UL) Compliance:	CIC, TC
CSA AWM Compliance:	AWM I/II A/B
PMSHA Compliance:	P-07-KA070003
Other Compliance:	2000V 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):	2005-10-13
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	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:	2000 V RMS (NEC Type TC)
--------------------	--------------------------

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
29540 0101000	Black	Reel	1,000 ft	612825138471
29540 0103500	Black	Reel	3,500 ft	612825138488

History

Update and Revision:	Revision Number: 0.351 Revision Date: 06-08-2020
----------------------	--

© 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.