



**Product:** [29536](#)

VFD 300% Gnd, 3C+G #14 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#14 TC Drain, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable

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## Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 14AWG (41x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/14AWG Tinned Copper Drain, 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
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor	14	41x30	TC - Tinned Copper	3
Ground	14	41x30	TC - Tinned Copper	1

Conductor Count:	3
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#### Insulation

Material	Nominal Wall Thickness
XLPE, XLPO, XLPE (Thermoset)	0.063 in
XLPE, 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	14 (4x)
Braid	2	Tinned Copper (TC)		85%		

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.679 in	0.073 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
2.52 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
26 pF/ft	46.8 pF/ft

#### Inductance

Nominal Inductance
0.213 µH/ft

#### Impedance

Nominal Characteristic Impedance
87 Ohm

#### Current

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

#### Voltage

Description	UL Voltage Rating
CSA AWM I/II A/B	1000 V RMS
	2000 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:	274 lbs/1000ft
Max. Pull Tension:	212 lbs
Min Bend Radius/Minor Axis:	6.8 in

#### Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC-ER, WTTCC
CEC/C(UL) Compliance:	CIC, TC
CSA AWM Compliance:	AWM I/II A/B
PMSHA Compliance:	P-07-KA070003
Other Compliance:	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):	2009-12-18
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:	1000 V RMS (Flexible Motor Supply Cable)
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Part Number

#### Variants

Item #	Color	Putup Type	Length	UPC
29536 0101000	Black	Reel	1,000 ft	612825138396
29536 0105000	Black	Reel	5,000 ft	612825138402

### History

Update and Revision:	Revision Number: 0.349 Revision Date: 06-08-2020
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