



Product: [29542](#)

VFD 300% Gnd, 3C+G #2 Str TC, XLPE Ins+ XLPE Gnd, OS+TC Brd w/3-#8 TC Drains, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable WTTC

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### Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 2AWG (7x19x23) Tinned Copper, XLPE Insulation M4 Color Code+ XLPE Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/3-8AWG Tinned Copper Drains, Black PVC Outer Jacket, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable WTTC 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

### Technical Specifications

#### Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems; High voltage requirements
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	2 AWG	7x19x23	TC - Tinned Copper
Ground	1	2 AWG	7x19x23	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.072 in (1.8 mm)	Black and Numbered
Ground	XLPE - Cross-Linked Polyethylene (Thermoset)	0.072 in (1.8 mm)	Green/Yellow Stripe

##### Outer Shield

Shield Type	Material	Coverage
Tape	Tri-Laminate (Alum+Poly+Alum)	100%
Braid	Tinned Copper (TC)	85%

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.088 in (2.2 mm)	1.361 in (34.57 mm)	Yes

Overall Cable Diameter (Nominal):	1.361 in (34.57 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.15 Ohm/1000ft (0.49 Ohm/km)	50 pF/ft (160 pF/m)	90 pF/ft (300 pF/m)	36 Ohm	55%	130 Amps per Conductor at 30°C

##### Voltage

UL Voltage Rating
2000 V (TC, C(UL) TC), 1000 V (WTTC, UL Flexible Motor Supply Cable, CSA AWM I/II A/B)

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-40°C To +90°C

#### Bend Radius

Stationary Min.	Installation Min.
16.3 in (414 mm)	16.3 in (414 mm)

Max. Pull Tension:	3327 lbs (1509 kg)
Bulk Cable Weight:	1673 lbs/1000ft (2490 kg/km)

#### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, WTTC, RHW-2, UL Flexible Motor Supply Cable
AWM Compliance:	I/II A/B
CEC / C(UL) Compliance:	CIC, TC
ICEA Compliance:	S-95-658
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-07-KA070003-MSHA

#### History

Update and Revision:	Revision Number: 0.572 Revision Date: 05-31-2024
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#### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
29542 0101000	Black	Reel	1,000 ft	612825138518
29542 0102000	Black	Reel	2,000 ft	612825138525

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