



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 WTTC

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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 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	Number of Element	Size	Stranding	Material
Conductor(s)	3	6 AWG	7x19x27	TC - Tinned Copper
Ground	1	6 AWG	7x19x27	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	0.095 in (2.4 mm)	1.049 in (26.64 mm)	Yes

Cable Diameter (Nominal):	1.049 in (26.64 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)	0.379 Ohm/1000ft (1.24 Ohm/km)	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)	56 Ohm	55%	75 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.
12.6 in (320 mm)	12.6 in (320 mm)

Max. Pull Tension:	1358 lbs (616.0 kg)
Bulk Cable Weight:	785 lbs/1000ft (1170 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, WTTTC, RHW-2, UL Flexible Motor Supply Cable
AWM Compliance:	III 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: 0.440 Revision Date: 10-11-2021
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Variants

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

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