



Product: [29537](#) 

VFD 300% Gnd, 3C+G #12 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#12 TC Drain, 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 12AWG (65x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/12AWG Tinned Copper Drain, 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	12 AWG	65x30	TC - Tinned Copper
Ground Wire	1	12 AWG	65x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.066 in (1.7 mm)	0.225 in (5.72 mm)	ICEA Chart M4
Ground Wire	XLPE - Cross-Linked Polyethylene (Thermoset)	0.066 in (1.7 mm)	0.225 in (5.72 mm)	Green/Yellow Stripe

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Tri-Laminate (Alum+Poly+Alum)	100%	12 AWG (65x30) TC
Braid	Tinned Copper (TC)	85%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.073 in (1.9 mm)	0.723 in (18.4 mm)	Yes

Overall Cable Diameter (Nominal):	0.723 in (18.4 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 Impedence	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	1.569 Ohm/1000ft	54 pF/ft (180 pF/m)	97 pF/ft (320 pF/m)	44 Ohm	0.197 µH/ft (0.646 µH/m)	55%	30 Amps per Conductor at 30°C
	1.72 Ohm/1000ft (5.64 Ohm/km)						30 Amps per Conductor at 30°C

Nom Outer Shield DCR:	0.68 Ohm/1000ft (2.2 Ohm/km)
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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.
8.7 in (220 mm)	8.7 in (220 mm)

Max. Pull Tension:	7922 lbs (3593 kg)
Bulk Cable Weight:	336 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL Loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, WTTC, UL Flexible Motor Supply Cable
AWM Compliance:	AWM I/II A/B
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: 0.540 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
29537 0101000	Black	Reel	1,000 ft	612825138419
29537 0105000	Black	Reel	5,000 ft	612825138426

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