



Product: [29502](#)

VFD 300% Gnd, 3C+G #12 Str TC,XLPE Ins+PVC Gnd, OS+TC Brd w/#12 TC Drain, Blk PVC Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V 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, 600/1000V TC-ER 90C Dry/Wet 1000V 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
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Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	3	12	65x30	TC - Tinned Copper
Ground	1	12	65x30	TC - Tinned Copper

Insulation

Element	Material	Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.046 in (1.2 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.046 in (1.2 mm)	Green/Yellow Stripe

Outer Shield Material

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

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.073 in (1.9 mm)	0.630 in	Yes

Cable Diameter (Nominal):	0.630 in (16.0 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	1.566 Ohm/1000ft (5.138 Ohm/km)	26 pF/ft (85 pF/m)	47 pF/ft (150 pF/m)	71 Ohm	55%	30 Amps per Conductor at 30°C (per NEC)

Voltage

UL Voltage Rating
1000 V (TC, WTTC, UL Flexible Motor Supply Cable, CSA AWM I/II A/B), 600 V (C(UL) CIC TC)

Mechanical Characteristics

Temperature

UL Rating	Operating

90°C Dry, 90°C Wet -40C To +90C

Bend Radius

Stationary Min.	Installation Min.
7.6 in (190 mm)	7.6 in (190 mm)

Max. Pull Tension: 458 lbs (208 kg)

Bulk Cable Weight: 277 lbs/1000ft (412 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:	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: 0.422 Revision Date: 06-08-2021

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