



Product: [29529](#)

VFD 100% Gnd, 3C #1/0 Str TC XLPE Ins + #1/0 Symm. Seg. Gnd (3 of #4) Str BC, CTS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

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Product Description

Belden 100% Ground Flexible VFD, 3 Conductor 1/0AWG (7x19x21) Tinned Copper XLPE Insulation M4 Color Code + 1/0AWG Symmetrical Segmented Ground (3 of 4AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC 1000V CSA AWM I/II A/B 600V RW90 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	Notes
Conductor(s)	3	1/0	7x19x21	TC - Tinned Copper	
Ground	3	4	7x19x25	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.057	Black and Numbered
Ground	Uninsulated		

Outer Shield Material

Shield Type	Material	Coverage
Helical Tape + Helical Tape	Bare Copper (BC) + Bare Copper (BC)	100% + 100%

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in	1.258 in	Yes

Cable Diameter (Nominal):	1.258 in
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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)	0.26 Ohm/1000ft	37 pF/ft	67 pF/ft	50 Ohm	0.55%	170 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
1000 V (TC, WTTC, UL Flexible Motor Supply Cable), 600 V (C(UL) CIC TC)

Mechanical Characteristics

Temperature

UL Rating	Operating

90°C Dry, 90°C Wet -40°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
12.9 in	15.1 in

Max. Pull Tension:	5506 lbs
Bulk Cable Weight:	1708 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, RW90, FT4, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, WTTC, XHHW-2, UL Flexible Motor Supply Cable
CEC / C(UL) Compliance:	TC
ICEA Compliance:	S-95-658
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-07-KA070003

History

Update and Revision:	Revision Number: 0.379 Revision Date: 07-30-2020
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