



Product: <u>29529F</u> ☑

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

😭 Request Sample

Product Description

Belden 100% Ground Extra Flexible VFD, 3 Conductor 1/0AWG (19x56x30) Tinned Copper XLPE Insulation M4 Color Code + 1/0AWG Symmetrical Segmented Ground (3 of 4AWG) Tinned Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black TPE Outer Jacket, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V WTTC 600V CIC TC SUN RES OIL RES II DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems, Exposure to high flex, motion, and abrasion, Hard to reach installation areas; Class 1 Division 2 Hazardous Locations
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	1/0 AWG	19x56x30	TC - Tinned Copper	
Ground	3	4 AWG	7x60x30	TC - Tinned Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.057 in (1.4 mm)	Black and Numbered
Ground	No Insulation		

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.083 in (2.1 mm)	1.292 in (32.82 mm)	Yes

Overall Cable Diameter (Nominal): 1.292 in (32.82 mm)

Electrical Characteristics

Electricals

Element	Element Nom. Conductor DCR Nom. Capacitance Cond-to-Cond		Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Nom. Velocity of Impedence Prop.		Max. Current
Conductor(s)	0.096 Ohm/1000ft (0.31 Ohm/km)	23 pF/ft (75 pF/m)	42 pF/ft (140 pF/m)	80 Ohm	55%	170 Amps per Conductor at 30°C (per NEC)

Voltage

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

Mechanical Characteristics

Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
7.5 in (190 mm)	15.5 in (394 mm)	15.5 in (394 mm)
Max. Pull Tension	n:	5787 lbs (2625 kg
Bulk Cable Weig	ht:	1763 lbs/1000ft (20

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, XHHW-2, UL Flexible Motor Supply Cable
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)

History

Update and Revision:	Revision Number: 0.516 Revision Date: 06-19-2024

Part Numbers

Variants

ltem #	Color	Putup Type	UPC
29529F 0102500	Black	Reel	612825373391

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