



Product: 29529F ☑

VFD 100% Gnd, 3C #1/0 Str TC XLPE Ins + #1/0 Symm. Seg. Gnd (3 of #4) Str TC, CTS, Blk TPE Jkt, 600V 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, 600V 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

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material	Notes
Conductor(s)	3	1/0	19x56x30	TC - Tinned Copper	
Ground	3	4	7x60x30	TC - Tinned Copper	Segmented Grounds

Insulation

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

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
TPE - Thermoplastic Elastomer	0.083 in	1.292 in	Yes
Cable Diameter (Nominal):	1.2	.92 in	

Electrical Characteristics

Electricals

Element	nt Nom. Conductor Nom. Capacitance Cond-to-Cond		Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	2.5 Ohm/1000ft	23 pF/ft	42 pF/ft	80 Ohm	0.55%	170 Amps per Conductor at 30°C (per NEC)

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.	Flexing Min.
6.5 in	15.5 in	15.5 in
Max. Pull Tension	n:	5787 lbs
Bulk Cable Weigl	ht:	1763 lbs/

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, 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, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.283 Revision Date: 09-30-2020

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