



Product: 29528X ☑

VFD 100% Gnd, 3C #1 Str TC XLPE Ins + #1 Symm. Seg. Grd (3 of #6) Str BC, CTS, Blk LSZH-TS Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable Marine Approved

Request Sample

Product Description

Belden 100% Ground Flexible VFD, 3 Conductor 1AWG (7x19x22) Tinned Copper XLPE Insulation M4 Color Code + 1AWG Symmetrically Segmented Ground (3 of 6AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black LSZH-TS Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable Marine Approved SUN RES OIL RES II

Technical Specifications

Product Overview

Suitable Applications:

Variable Frequency Drives (VFD); AC Motor and Drive Systems; Exposure to marine or saltwater environments

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material	Notes
Conductor(s)	3	1	7x19x22	TC - Tinned Copper	
Ground	3	6	7x19x27	BC - Bare 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
LSZH - Low Smoke Zero Halogen (Flame Retardant, Thermoset)		0.083 in	1.195 in	Yes
Cable Diameter (Nominal):	1.195 in			

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.26 Ohm/1000ft	37 pF/ft	67 pF/ft	50 Ohm	0.55%	145 Amps per Conductor at 30°C (per NEC)

Voltage

UL Voltage Rating
1000 V (TC, Flexible Motor Supply Cable), 600 / 1000 V (UL 1309)

Mechanical Characteristics

Temperature

UL Rating Operating

Bend Radius

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance	
Sustainability:	CA Prop 65	
Flammability / Fire Resistance:	.1685 FT4 Loading, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)	
NEC / UL Compliance:	Article 336, TC-ER, XHHW-2	
ICEA Compliance:	S-95-658	
Marine Compliance:	ABS, DNV	
European Directive Compliance:	EU CE Mark	
APAC Compliance:	China RoHS II (GB/T 26572-2011)	

History

Update and Revision: Revision Number: 0.278 Revision Date: 09-30-2020

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