



Product: [29504X](#)

VFD 300% Gnd, 3C+G #8 Str TC, XLPE Ins+PVC Grd, OS+TC Brd w/4-#14 TC Drains, Blk LSZH-TS Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable Marine Approved

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Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 8AWG (7x19x29) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-14AWG Tinned Copper Drains, 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
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
8	7x19x29	TC - Tinned Copper	3
8	7x19x29	TC - Tinned Copper	1

Conductor Count:	3
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Insulation

Material	Nominal Wall Thickness
XLPE - Cross-Linked Polyethylene (Thermoset)	0.062 in
PVC - Polyvinyl Chloride	

Color Chart

Number	Color
1	Black and Numbered
2	
3	
4	

Color Chart 2

Color
Green with Yellow Stripe

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%	TC - Tinned Copper	14 (4x)
Braid	2	Tinned Copper (TC)		85%		

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant, Thermoset)	0.901 in	0.095 in

Electrical Characteristics

Conductor DCR

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Nominal Conductor DCR
0.64 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30 pF/ft	54 pF/ft

Inductance

Nominal Inductance
0.181 μH/ft

Impedance

Nominal Characteristic Impedance
62 Ohm

Current

Max. Recommended Current [A]
55 Amps per Conductor at 30°C

Voltage

Description	UL Voltage Rating
CSA AWM I/II A/B	1000 V RMS
	600 V RMS (Type TC)

Temperature Range

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temp Range:	-40°C To 90°C
Wet Temp Range:	-40°C To +90 °C
Dry Temp Range:	-40°C To +90 °C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	604 lbs/1000ft
Max. Pull Tension:	768 lbs
Min Bend Radius/Minor Axis:	7.5 in

Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC-ER, WTTC
PMSHA Compliance:	P-07-KA14008
Other Compliance:	1000V UL Flexible Motor Supply Cable, UL 1309 Marine Cable, IEEE 1580-2010 Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2013-10-24
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202, 383
UL voltage rating:	1000 V RMS (Flexible Motor Supply Cable)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
29504X 0105000	Black	Reel	5,000 ft	612825137122

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

History

Update and Revision:	Revision Number: 0.333 Revision Date: 06-30-2020
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