



Product: 29503X

VFD 300% Gnd, 3C+IG #10 Str TC, XLPO Ins+PVC Grd, OS+TC Brd, Blk LSZH-TS Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable Marine Approved

😭 Request Sample

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 10AWG (105x30) Tinned Copper, XLPO Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) 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:

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
	10	105x30	TC - Tinned Copper	3
Ground Wire	10	105x30	TC - Tinned Copper	
Conductor Co	ount:		3	

AC Motor drives, VFD, Variable Frequency drives

Insulation

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.045 in
XLP - Cross Linked Polyolefin	

Outer Shield Material

Туре	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Таре	1	Aluminum/Polyester	Duofoil®	100 %	TC - Tinned Copper	10	105x30 mm
Braid	2	TC - Tinned Copper		85 %			

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
Haloarrest Xlink 2	0.69 in	0.073 in

Electrical Characteristics

Conductor	DCR
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Nominal Conductor DCR 0.988 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
29 pF/ft	53 pF/ft

Inductance

Nominal Inductar
0.184 µH/ft

Impedance

Current

Max. Recommended Current [A] 40 Amps per conductor @ 30°C (per NEC)

Voltage

UL Voltage Rating
1000 V RMS (Flexible Motor Supply Cable)
600 V RMS (Type TC)

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	350 lbs/1000ft
Max Recommended Pulling Tension:	592 lbs
Min Bend Radius/Minor Axis:	5.5 in

Standards

NEC/(UL) Specification: TC-ER, Unlisted Singles, WTTC

Applicable Environmental and Other Programs		
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)	
EU CE Mark:	Yes	
CA Prop 65 (CJ for Wire & Cable):	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				
UL voltage rating:	1000 V RMS (Flexible Motor Supply Cable)				

Part Number

Variants

ltem #	Color	UPC	Length	Footnote
29503X 0105000	Black	612825137009	9 5,000 ft	CZ
Footnote:		C -	CRATE R	EEL PUT-U
Footnote:			FINAL PU	T-UP MAY
History				

Update and Revision: Revision Number: 0.212 Revision Date: 09-10)-2019
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