



Part Number: 29503X

Marine VFD, (3) 10 AWG (105x30) TC+Grd, XLP/XL-LSZH, Foil+TC Braid Shld, TC-ER

Product Description

Three 10 AWG stranded (105x30) tinned copper circuit conductors plus ground wire, cross-linked polyolefin insulation, overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), HaloarrestXLink2 jacket.

Product Specifications

Technical Specifications

s	uitable Applications:	AC Motor drives, VFD, Variable Frequency drives
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Construction and Dimensions

Conductor:

Element	AWG	Stranding	Material	No. of Conductors
	10	105×30	TC - Tinned Copper	3
Ground Wire	10	105×30	TC - Tinned Copper	

Total Number of Conductors:	3
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Insulation:

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

Stranding:

Lay Length	
Y mm	

Outershield 1:

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

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
HaloarrestXLink-2	o.69 in	0.073 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR

0.988 Ohm/1000ft

Capacitance:

e Conductor to Other Conductor to Shield
egaohms/1000 ft. MOhm*1000ft
1 4

Impedance:

Nominal Characteristic Impedance
63 Ohm

Current:

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

Inductance:

Nominal Inductance
0.184 μH/ft

Voltage:

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

Use

Suitability - Oil Resistance:	Yes
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	592 lbs

Safety

CSA Flammability:	FT4	
IEEE Flammability:	1202	
UL Flammability:	UL1685 UL Loading	

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	5.5 in

Part Number

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)	
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)	
NEC Articles:	NEC Articles	
NEC/(UL) Specification:	NEC/(UL) Specification	
Other Specification:	Other Specification	
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)	
EU CE Mark:	EU CE Mark	

History

Product Variants

Part Number	Color	Put-Up Type	Length
29503X 0105000	BLACK	Reel	5000 ft

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