



**Part Number:** 29505X

Marine VFD, (3) 6 AWG (7x19x27) TC+Grd, XLP/XL-LSZH, Foil+TC Braid Shld, TC-ER

## Product Description

Three 6 AWG stranded (7x19x27) 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

<b>Suitable Applications:</b>	AC Motor drives, VFD, Variable Frequency drives
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## Construction and Dimensions

### Conductor:

Element	AWG	Stranding	Material	No. of Conductors
	6	7x19x27	TC - Tinned Copper	3
Ground Wire	6	7x19x27	TC - Tinned Copper	

<b>Total Number of Conductors:</b>	3
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### Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.06 in
XLP - Cross Linked Polyolefin	

### Color Chart 1:

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

### Stranding:

Lay Length
Y mm

### Outershield 1:

Type	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	12 (4x)	65x30 mm
Braid	2	TC - Tinned Copper		85 %			

### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
HaloarrestXLink-2	1.028 in	0.093 in

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR
0.41 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
33 pF/ft	60 pF/ft

<b>Min Insulation Resistance:</b>	300 Megaohms/1000 ft. MOhm*1000ft
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### Impedance:

Nominal Characteristic Impedance
56 Ohm

### Current:

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

### Inductance:

## Nominal Inductance

0.171  $\mu$ H/ft

## Voltage:

Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	1000 V RMS (Flexible Motor Supply Cable)	1000 V RMS
	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:	1220 lbs

## Safety

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

## Temperature Range

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

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	8.25 in
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## 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)

## History

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## Product Variants

Part Number	Color	Put-Up Type	Length
29505X 0101000	BLACK	Reel	1000 ft
29505X 0103500	BLACK	Reel	3500 ft

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