

29531X Multi-Conductor - 1000V UL Flexible Motor Supply Cable



For more Information
please call

1-800-Belden1

**General Description:**

3 stranded tinned copper circuit conductors plus (3) symmetrical bare copper ground wires, XLP insulation, two spiral copper tape shields (100% Coverage) ~ sun- and oil-resistant Haloarrest(R) Xlink2 jacket.

Usage (Overall)

Suitable Applications:

AC Motor Drives, VFD, Variable Frequency Drive

Physical Characteristics (Overall)**Conductor**

AWG:

# Conductors	AWG Stranding	Conductor Material
3	3/0 19x7x19	TC - Tinned Copper

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 4

Ground Wire Stranding: 7x19x25

Ground Wire Conductor Material: BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
XLP - Cross Linked Polyolefin	1.448

Insulation Color Code Chart:

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)	Description
1	Tape	Spiral Copper	100.000	.002"
2	Tape	Spiral Copper	100.000	.002"

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
Haloarrest(R) Xlink2	2.108

Overall Cable

Overall Nominal Diameter: 38.608 mm

Mechanical Characteristics (Overall)

Wet Temperature Range: -40°C To +90°C

Dry Temperature Range: -40°C To +90°C

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Bulk Cable Weight:	3777.052 Kg/Km
Max. Recommended Pulling Tension:	22352.205 N
Min. Bend Radius/Minor Axis:	386.080 mm

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	600V Type RW90 TC
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/24/13
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
PMSHA Specification:	P-07-KA14008
Other Specification:	1000V UL Flexible Motor Supply Cable, UL 1309 Marine, IEEE 1580-2010 Type P

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)

Suitability

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

Electrical Characteristics (Overall)**Nom. Inductance:**

Inductance (μH/m)
0.452778

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
157.488

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
282.166

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
0.206703

Max. Operating Voltage - UL:

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

Max. Operating Voltage - Other:

METRIC MEASUREMENT VERSION

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Voltage	Description
1000 V RMS	CSA AWM I/II A/B

Max. Recommended Current:

Current
225 Amps per conductor @ 30°C (per NEC)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29531X 0101000	1,000 FT	2,793.000 LB	BLACK	C Z	#3/0XLPO+3 #4 GRDDBCUTAPE XL2
29531X 0102000	2,000 FT	5,660.000 LB	BLACK	C Z	3#3/0XLPO+3 #4 GRDDBCUTAPE XL2

Notes:

C = CRATE REEL PUT-UP.

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

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