

## 29530 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 PVC jacket.

**Usage (Overall)**

Suitable Applications: AC Motor Drives, VFD, Variable Frequency Drive

**Physical Characteristics (Overall)****Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
3	2/0	7x19x20	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)
PVC - Polyvinyl Chloride	2.108

**Overall Cable**

Overall Nominal Diameter: 35.560 mm

**Mechanical Characteristics (Overall)**

Wet Temperature Range: -40°C To +90°C

Dry Temperature Range: -40°C To +90°C

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<b>Bulk Cable Weight:</b>	3196.654 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	18682.440 N
<b>Min. Bend Radius/Minor Axis:</b>	355.600 mm

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

<b>NEC/(UL) Specification:</b>	TC-ER, WTTC, XHHW-2 Singles
<b>NEC Articles:</b>	336 - ER
<b>CEC/C(UL) Specification:</b>	600V Type RW90 TC
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	11/09/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>PMSHA Specification:</b>	P-07-KA070003
<b>Other Specification:</b>	1000V UL Flexible Motor Supply Cable

**Flame Test**

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

**Suitability**

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Suitability - Burial:</b>	Yes
<b>Sunlight Resistance:</b>	Yes
<b>Oil Resistance:</b>	Yes

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

<b>Inductance (μH/m)</b>
0.462621

**Nom. Capacitance Conductor to Conductor:**

<b>Capacitance (pF/m)</b>
150.926

**Nom. Capacitance Cond. to Other Conductor & Shield:**

<b>Capacitance (pF/m)</b>
272.323

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
0.259199

**Max. Operating Voltage - UL:**

<b>Voltage</b>
1000 V RMS (Flexible Motor Supply Cable)

## METRIC MEASUREMENT VERSION

## 29530 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

600 V RMS (NEC Type TC)

## Max. Operating Voltage - Other:

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

## Max. Recommended Current:

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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29530 0102000	2,000 FT	4,718.000 LB	BLACK	C Z	3C2/0 133STC VFD 600V

## 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.

Revision Number: 5    Revision Date: 09-09-2016

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