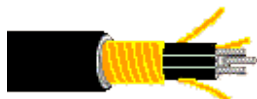


## 29531 Multi-Conductor - 1000V UL Flexible Motor Supply Cable



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	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 (in.)
XLP - Cross Linked Polyolefin	0.057

##### 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 (in.)
PVC - Polyvinyl Chloride	0.083

#### Overall Cable

**Overall Nominal Diameter:** 1.520 in.

### Mechanical Characteristics (Overall)

**Wet Temperature Range:** -40°C To +90°C

**Dry Temperature Range:** -40°C To +90°C

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

<b>Bulk Cable Weight:</b>	2538 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	5025 lbs.
<b>Min. Bend Radius/Minor Axis:</b>	15.200 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	600V Type RW90 TC
<b>CSA Specification:</b>	600 V AWM I/II A/B
<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:

Inductance (µH/ft)

.138

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

48

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

Capacitance (pF/ft)

86

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

.063

#### Max. Operating Voltage - UL:

Voltage

1000 V RMS (Flexible Motor Supply Cable)

600 V RMS (NEC Type TC)

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

### Max. Operating Voltage - Other:

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
29531 0101000	1,000 FT	2,952.000 LB	BLACK	C 9	3C3/0 133STR VFD 600V
29531 0102000	2,000 FT	6,092.000 LB	BLACK	C Z	3C3/0 133STR VFD 600V
29531 010250	250 FT	699.500 LB	BLACK	C 9	3C3/0 133STR VFD 600V
29531 010500	500 FT	1,560.000 LB	BLACK	C 9	3C3/0 133STR 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.

9 = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 5% FROM LENGTH SHOWN.

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