

## 29500 Multi-Conductor - 1000V UL Flexible Motor Supply Cable



For more Information  
please call

1-800-Belden1



### Description:

4-cond. (3) stranded tinned copper circuit conductors, (1) ground wire with PVC insulation, XLPE insulation, Overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), tinned copper drain wire, Oil & Sun-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	16	26x30	TC - Tinned Copper

#### Ground Wire

<b>Ground Wire (Y/N):</b>	Y
<b>Ground Wire AWG:</b>	16
<b>Ground Wire Stranding:</b>	26x30
<b>Ground Wire Conductor Material:</b>	TC - Tinned Copper
<b>Ground Wire Insulation Material:</b>	PVC - Polyvinyl Chloride

#### Insulation

**Insulation Material:**

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	.045

**Insulation Resistance:** 300 Megaohms/1000 ft.

#### Outer Shield

**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
16	26x30	TC - Tinned Copper

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

**Overall Nominal Diameter:** 0.530 in.

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 90°C Wet/Dry

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<b>Bulk Cable Weight:</b>	160 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	128 lbs.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	4.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	RHW-2 Type, TC-ER, Unlisted Singles, WTTC
<b>NEC Articles:</b>	336 - ER
<b>CSA Specification:</b>	1000 V AWM I/II A/B
<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>	10/13/2005
<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. Characteristic Impedance:

Impedance (Ohm)

90

#### Nom. Inductance:

Inductance (µH/ft)

.2298

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

21

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

Capacitance (pF/ft)

38

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.0

#### Max. Operating Voltage - UL:

## 29500 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

### Voltage

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

### Max. Recommended Current:

### Current

18 Amps per conductor @ 25°C
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### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29500 010100	100 FT	21.700 LB	BLACK		#16/4C XLPE SH PVC
29500 0101000	1,000 FT	187.000 LB	BLACK	C Z	#16/4C XLPE SHPVC
29500 010250	250 FT	47.500 LB	BLACK	C Z	#16/4C XLPE SHPVC
29500 010500	500 FT	93.000 LB	BLACK	C Z	#16/4C XLPE SHPVC
29500 0106000	6,000 FT	1,116.000 LB	BLACK	C Z	#16/4C XLPE SH PVC

### 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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