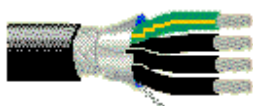


## 29500 Multi-Conductor - 1000V UL Flexible Motor Supply Cable



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**

Ground Wire (Y/N):	Y
Ground Wire AWG:	16
Ground Wire Stranding:	26x30
Ground Wire Conductor Material:	TC - Tinned Copper
Ground Wire Insulation Material:	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

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

<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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**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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