

**29500 Non-Paired - 1000V UL Flexible Motor Supply Cable**

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : ICEA Method 4.pdf</p>
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**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.

**SUITABLE APPLICATIONS:**

Suitable Applications	AC Motor Drives, EFD, Variable Frequency Drive
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**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Conductors	3
Total Number of Conductors	3
AWG	16
Stranding	26x30
Conductor Material	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	XLPE - Cross Linked Polyethylene
Nom. Insulation Wall Thickness	.045 in.
Insulation Resistance	300 Megaohms/1000 ft.

Insulation Color Code Chart :

Number	Color	Number	Color
1	Black #1	3	Black #3
2	Black #2	4	Green/Yellow

**OUTER SHIELD:**

Outer Shield Material Trade Name	Duofoil®
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Outer Shield Type Tape/Braid

Outer Shield Material :

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

Outer Shield %Coverage 100 %

Outer Shield Drain Wire AWG 16

Outer Shield Drain Wire Stranding 26x30

Outer Shield Drain Wire Conductor Material TC - Tinned Copper

**OUTER JACKET:**

Outer Jacket Material PVC - Polyvinyl Chloride

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter .53 in.

**MECHANICAL CHARACTERISTICS:**

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

UL Temperature Rating 90°C Wet/Dry

Bulk Cable Weight 160 lbs/1000 ft.

Max. Recommended Pulling Tension 128 lbs.

Min. Bend Radius (Install) 4.25 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification TC-ER, XHHW-2, RHHW-2 Type, Unlisted Singles

NEC Articles 336 - ER

CSA Specification 1000 V AWM I/II A/B

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

EU RoHS Compliance Date (mm/dd/yyyy): 10/13/2005

**FLAME TEST:**

UL Flame Test UL1685 UL Loading

CSA Flame Test FT4

IEEE Flame Test 1202

**SUITABILITY:**

Suitability - Indoor Yes

Suitability - Outdoor Yes

Suitability - Burial Yes

Sunlight Resistance Yes

Oil Resistance Yes

## 29500 Non-Paired - 1000V UL Flexible Motor Supply Cable

### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	90 Ohms
Nom. Inductance	.2298 $\mu$ H/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	21 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	38 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	4.0 Ohms/1000 ft
Max. Operating Voltage - UL	1000 V RMS (Flexible Motor Supply Cable), 600 V RMS (NEC Type TC)
Max. Operating Voltage - Other	1000 V RMS (CSA AWM I/II A/B)
Max. Recommended Current	18 Amps per conductor @ 25°C

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
29500 010100	#16/4C XLPE SH PVC	100	21.2	BLACK	
29500 0101000	#16/4C XLPE SHPVC	1000	182	BLACK	C Z
29500 010250	#16/4C XLPE SHPVC	250	46.25	BLACK	C Z
29500 010500	#16/4C XLPE SHPVC	500	93	BLACK	C Z
29500 0106000	#16/4C XLPE SH PVC	6000	1080	BLACK	C Z

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: 1      Revision Date: 02-09-2006

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