

29501 Non-Paired - 1000V UL Flexible Motor Supply Cable

 	<p>For more information please call 1-800-Belden1</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 plus(1) ground wire with PVC insulation, XLPE insulation, overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage) , tinned copper drain wire, sun- & oil-resistant PVC jacket.

SUITABLE APPLICATIONS:

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

CONDUCTOR:

Number of Conductors	3
Total Number of Conductors	3
AWG	14
Stranding	41x30
Conductor Material	TC - Tinned Copper

GROUND WIRE:

Ground Wire (Y/N)	Y
Ground Wire AWG	14
Ground Wire Stranding	41x30
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 14

Outer Shield Drain Wire Stranding 41x30

Outer Shield Drain Wire Conductor Material TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .60 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 190 lbs/1000 ft.

Max. Recommended Pulling Tension 212 lbs.

Min. Bend Radius (Install) 4.8 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification TC-ER, XHHW-2, RHW-2 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

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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	80 Ohms
Nom. Inductance	.213 μ H/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	23 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	42 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	2.52 Ohms/1000 ft
Max. Operating Voltage - UL	1000 V RMS (Flexible Motor Supply Cable), 600 V RMS (NEC Type TC)

Max. Operating Voltage - Other :

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

Max. Recommended Current	25 Amps per conductor @ 30°C (per NEC)
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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
29501 010100	#14/4C XLPE SH PVC	100	26.5	BLACK	
29501 0101000	#14/4C XLPE SHPVC	1000	233	BLACK	C Z
29501 010250	#14/4C XLPE SHPVC	250	59.75	BLACK	C Z
29501 010500	#14/4C XLPE SHPVC	500	120	BLACK	C Z
29501 0105000	#14/4C XLPE SH PVC	5000	1215	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.

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