

29502 Non-Paired - 1000V UL Flexible Motor Supply Cable

 	For more information please call 1-800-Belden1 <u>See Put-ups and Colors</u> Related Documents : ICEA Method 4.pdf
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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	12
Stranding	65x30
Conductor Material	TC - Tinned Copper

GROUND WIRE:

Ground Wire (Y/N)	Y
Ground Wire AWG	12
Ground Wire Stranding	65x30
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
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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 %
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Outer Shield Drain Wire AWG	12
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Outer Shield Drain Wire Stranding	65x30
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Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.65 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +90°C Dry, +90°C Wet
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UL Temperature Rating	90°C Wet/Dry
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Bulk Cable Weight	250 lbs/1000 ft.
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Max. Recommended Pulling Tension	336 lbs.
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Min. Bend Radius (Install)	5.2 in.
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APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	TC-ER, XHHW-2, RHW-2 Singles
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NEC Articles	336 - ER
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CSA Specification	1000 V AWM I/II A/B
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EU CE Mark (Y/N)	Yes
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EU RoHS Compliant (Y/N)	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
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FLAME TEST:

UL Flame Test	UL1685 UL Loading
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CSA Flame Test	FT4
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IEEE Flame Test	1202
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SUITABILITY:

Suitability - Indoor	Yes
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Suitability - Outdoor	Yes
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Suitability - Burial	Yes
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Sunlight Resistance	Yes
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Oil Resistance	Yes
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	71 Ohms
Nom. Inductance	.197 μ H/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	26 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	47 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	1.6 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	30 Amps per conductor @ 30°C (per NEC)

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
29502 010100	#12/4C XLPE SH PVC	100	31.8	BLACK	
29502 0101000	#12/4C XLPE SHPVC	1000	296	BLACK	C Z
29502 010250	#12/4C XLPE SHPVC	250	75.25	BLACK	C Z
29502 0102500	#12/4C XLPE SHPVC	2500	750	BLACK	
29502 010500	#12/4C XLPE SHPVC	500	146.5	BLACK	C Z
29502 0105000	#12/4C XLPE SH PVC	5000	1475	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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