# **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

# 29502 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 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.

Jsage (Overall)				
Suitable Applications:	AC Motor Drives, VFD, Variable Frequency Drive			
Physical Characteristics (Overall)				
Conductor				
AWG:				
# Conductors AWG Stranding Conductor Material   3 12 65x30 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:				
Insulation Material Wall Thickness (i	n.)			
XLPE - Cross Linked Polyethylene .045				
Insulation Resistance:	300 Megaohms/1000 ft.			
Outer Shield				
Outer Shield Material:				
Layer # Outer Shield Trade Name Type Outer Shield 1 Duofoil® Tape Aluminum				
2 Braid TC - Tinne				
Outer Shield Drain Wire AWG:				
AWG Stranding Drain Wire Conductor Material				
12 65x30 TC - Tinned Copper				
Outer looket				
Outer Jacket Outer Jacket Material:				
Outer Jacket Material				
PVC - Polyvinyl Chloride				
Overall Cable				
Overall Nominal Diameter:	0.630 in.			
Rechanical 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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Bulk Cable Weight:	250 lbs/1000 ft.				
Max. Recommended Pulling Tension:	336 lbs. 5.200 in.				
Min. Bend Radius (Install)/Minor Axis:					
plicable Specifications and Agency C	Compliance (Overall)				
plicable Standards & Environmental Pro	grams				
NEC/(UL) Specification:	TC-ER, Unlisted Singles, WTTC				
NEC Articles:	336 - ER				
CSA Specification:	1000 V AWM I/II A/B				
EU CE Mark:	Yes				
EU Directive 2000/53/EC (ELV):	Yes				
EU Directive 2002/95/EC (RoHS):	Yes				
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005				
EU Directive 2002/96/EC (WEEE):	Yes				
EU Directive 2003/11/EC (BFR):	Yes				
CA Prop 65 (CJ for Wire & Cable):	Yes				
MII Order #39 (China RoHS):	Yes				
PMSHA Specification:	P-07-KA070003				
Other Specification:	1000V UL Flexible Motor Supply Cable				
ame Test					
UL Flame Test:	UL1685 UL Loading				
CSA Flame Test:	FT4				
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)				
itability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Suitability - Burial:	Yes				
Sunlight Resistance:	Yes				
Oil Resistance:	Yes				

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 71 Nom. Inductance: Inductance (µH/ft) .197

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 26

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

47

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.6

Max. Operating Voltage - UL:



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

#### Max. Recommended Current:

Current

30 Amps per conductor @ 30°C (per NEC)

#### **Related Documents:**

No related documents are available for this product

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29502 010100	100 FT	32.300 LB	BLACK		#12/4C XLPE SH PVC
29502 0101000	1,000 FT	301.000 LB	BLACK	CZ	#12/4C XLPE SHPVC
29502 010250	250 FT	76.500 LB	BLACK	CZ	#12/4C XLPE SHPVC
29502 010500	500 FT	146.000 LB	BLACK	CZ	#12/4C XLPE SHPVC
29502 0105000	5,000 FT	1,560.000 LB	BLACK	CZ	#12/4C 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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