## **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

## 29503 Multi-Conductor - 1000V UL Flexible Motor Supply Cable



For more Information please call

1-800-Belden1



## **General 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.

		,			
Usage (Overall)					
Suitable Applications	AC Motor D	AC Motor Drives, VFD, Variable Frequency Drives			
Physical Characteris	tics (Overall)	)			
Conductor AWG:					
# ConductorsAWGStr31010	-	or Material ed Copper			
Total Number of Con		3			
Ground Wire					
Ground Wire (Y/N):		Y			
Ground Wire AWG:		10			
Ground Wire Strandi	ng:	105x30			
Ground Wire Conduc	tor Material:	TC - Tinned	Copper		
Ground Wire Insulati	on Material:	PVC - Polyv	inyl Chloride		
Insulation					
Insulation Material:					
Insulation Material Wall Thickness (in.)					
XLP - Cross Linked Poly					
Insulation Resistance	e:	300 Megaol	ıms/1000 ft.		
Outer Shield Outer Shield Material:					
Layer # Outer Shield T			Coverage (%)		
1 Duofoil®		Aluminum Foil-Polyester Tape TC - Tinned Copper	100 85		
Outer Shield Drain Wir				1	
AWG Stranding Drain		<b>Naterial</b>			
10 105x30 TC - T	inned Copper				
Outer Jacket Outer Jacket Material:					
Outer Jacket Material	Nom. Wall Thick	(ness (in )			
PVC - Polyvinyl Chloride					
Overall Cable					
Overall Nominal Dian	neter:	0.690 in.			
Mechanical Characte	ristics (Over	all)			
Wet Temperature Ra		-40°C To +9	0°C		

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Dry Temperature Range:	-40°C To +90°C
UL Temperature Rating:	90°C Wet/Dry
Bulk Cable Weight:	350 lbs/1000 ft.
Max. Recommended Pulling Tension:	592 lbs.
Min. Bend Radius/Minor Axis:	5.500 in.

## Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs					
	NEC/(UL) Specification:	TC-ER, Unlisted Singles, WTTC			
	NEC Articles:	336 - ER			
	CSA Specification:	1000 V AWM I/II A/B			
	EU Directive 2011/65/EU (ROHS II):	Yes			
	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:	Р-07-КА070003			
	Other Specification:	1000V UL Flexible Motor Supply Cable			
Fla	Flame Test				
	UL Flame Test:	UL1685 UL Loading			
	CSA Flame Test:	FT4			
	IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)			
Su	Suitability				
	Suitability - Indoor:	Yes			
	Suitability - Outdoor:	Yes			
	Suitability - Burial:	Yes			
	Sunlight Resistance:	Yes			
	Oil Resistance:	Yes			

## **Electrical Characteristics (Overall)**

No	om. Characteristi	c Impedance:
	Impedance (Ohm)	
	63	

Nom. Inductance:

Inductance (µH/ft)

0.184

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 29

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 53



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#### Nom. Conductor DC Resistance:

DCR @ 20°	C (Ohr	n/1000 ft)
0.988		

### Max. Operating Voltage - UL:

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

Max. Recommended Current:

#### Current

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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29503 010100	100 FT	40.300 LB	BLACK		#10/4C XLPE SH PVC
29503 0101000	1,000 FT	399.000 LB	BLACK	CZ	#10/4C XLPE SHPVC
29503 010250	250 FT	96.500 LB	BLACK	CZ	#10/4C XLPE SHPVC
29503 010500	500 FT	186.000 LB	BLACK	CZ	#10/4C XLPE SHPVC
29503 0105000	5,000 FT	1,905.000 LB	BLACK	CZ	#10/4C 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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