Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

For more Information please call

29500 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

1-800-Belden1



General Description:					
20 AWG stranded (10x30) bare copper conduc	ctors, PVC insulation, oil-resistant PVC jacket.				
Usage (Overall)					
Suitable Applications:	AC Motor Drives, VFD, Variable Frequency Drive				
Physical Characteristics (Overall)					
Conductor AWG:					
# Conductors AWG Stranding Conductor Material					
3 16 26x30 TC - Tinned Copper					
Total Number of Conductors:	3				
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: Insulation Material Wall Thickness (mm)					
XLP - Cross Linked Polyolefin 1.143					
Insulation Resistance:	300 Megaohms/1000 ft.				
Insulation Color Code Chart:	5				
Number Color					
1 Black and Numbered 1					
2 Black and Numbered 2					
Black and Numbered 3 Green/Yellow					
Outer Shield					
Outer Shield Material:					
Layer # Outer Shield Trade Name Type Outer Shield N	Iaterial Coverage (%)				
1 Duofoil® Tape Aluminum Foil-					
2 Braid TC - Tinned Co	pper 85				
Outer Shield Drain Wire AWG:					
AWG StrandingDrain Wire Conductor Material1626x30TC - Tinned Copper					
Outer Jacket					
Outer Jacket Material:					
Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 1.854					
Overall Cable					

Overall Cable

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Overall Nominal Diameter:	13.564 mm			
Aechanical Characteristics (Overall)				
Wet Temperature Range:	-40°C To +90°C			
Dry Temperature Range:	-40°C To +90°C			
Bulk Cable Weight:	238.112 Kg/Km			
Max. Recommended Pulling Tension:	569.370 N			
Min. Bend Radius/Minor Axis:	107.950 mm			
Applicable Specifications and Agency O	Compliance (Overall)			
Applicable Standards & Environmental Pro	grams			
NEC/(UL) Specification:	TC-ER, Unlisted Singles, WTTC			
NEC Articles:	336 - ER			
CEC/C(UL) Specification:	600V Type CIC TC			
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:	P-07-KA070003			
Other Specification:	1000V UL Flexible Motor Supply Cable			
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)			
Suitability				
Suitability - Indoor:	Yes			
Suitability - Outdoor:	Yes			
Suitability - Burial:	Yes			
Sunlight Resistance:	Yes			
Oil Resistance:	Yes			

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

90

Nom. Inductance:

Inductance (µH/m)

0.755

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 68.901

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Nom, Capacitance Cond, to Other Conductor & Shield:

Capacitan	ce (pF/m)
124.678	

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 13.124

Max. Operating Voltage - UL:

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

Max. Operating Voltage - Other:

Voltage Description 1000 V RMS CSA AWM 1/11 A/B

Max. Recommended Current:

Current

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29500 010100	100 FT	21.700 LB	BLACK		#16/4C XLPE SH PVC
29500 0101000	1,000 FT	187.000 LB	BLACK	CZ	#16/4C XLPE SHPVC
29500 010250	250 FT	47.750 LB	BLACK	CZ	#16/4C XLPE SHPVC
29500 010500	500 FT	93.000 LB	BLACK	CZ	#16/4C XLPE SHPVC
29500 0106000	6,000 FT	1,116.000 LB	BLACK	CZ	#16/4C 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.

Revision Number: 0 Revision Date: 09-27-2017

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