Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



29501 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.

Usage (Overall)

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

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	14	41x30	TC - Tinned Copper

Ground Wire

Ground Wire (Y/N):	Υ
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:

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	.045

Insulation Resistance: 300 Megaohms/1000 ft.

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Duofoil®	Таре	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
14	41x30	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.600 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C Dry, +90°C Wet

UL Temperature Rating: 90°C Wet/Dry

Page 1 of 3 01-06-2012

Detailed Specifications & Technical Data





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Bulk Cable Weight:	190 lbs/1000 ft.		
Max. Recommended Pulling Tension:	212 lbs.		
Min. Bend Radius (Install)/Minor Axis:	4.800 in.		
olicable Specifications and Agency Compliance (Overall)			

Ap

App

Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	TC-ER, Unlisted Singles, WTTC				
NEC Articles:	336 - ER				
CEC/C(UL) Specification:	XHHW-2				
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				
lame 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				

Suit

Sunlight Resistance: Yes Oil Resistance: Yes

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

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Max. Operating Voltage - UL:

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

Max. Operating Voltage - Other:

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

Max. Recommended Current:

Current

25 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
29501 010100	100 FT	27.000 LB	BLACK		#14/4C XLPE SH PVC
29501 0101000	1,000 FT	238.000 LB	BLACK	CZ	#14/4C XLPE SHPVC
29501 010250	250 FT	61.000 LB	BLACK	CZ	#14/4C XLPE SHPVC
29501 010500	500 FT	119.500 LB	BLACK	CZ	#14/4C XLPE SHPVC
29501 0105000	5,000 FT	1,295.000 LB	BLACK	CZ	#14/4C XLPE SH PVC

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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