Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



29501 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.

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Suitable Applications:

AC Motor Drives, VFD, Variable Frequency Drive

Physical Characteristics (Overall)

Conductor

Usage (Overall)

AWG:

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

Total Number of Conductors:

Ground Wire

Ground Wire (Y/N):

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.)
XLP - Cross-Linked Polyolefin	0.045

Insulation Resistance: 300 Megaohms/1000 ft.

Insulation Color Code Chart:

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
3	Green/Yellow

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	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	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.073

Overall Cable

Overall Nominal Diameter: 0.604 in.

Mechanical Characteristics (Overall)

chanical characteristics (Overall)				
Wet Temperature Range:	-40°C To +90°C			
Dry Temperature Range:	-40°C To +90°C			
Bulk Cable Weight:	190 lbs/1000 ft.			

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Max. Recommended Pulling Tension:	212 lbs.				
Min. Bend Radius/Minor Axis:	4.800 in.				
Applicable Specifications and Agency Compli	ance (Overall)				
pplicable Standards & Environmental Programs					
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:					

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)

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:

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Current 25 Amps per conductor @ 30°C (per NEC)

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	1,240.000 LB	BLACK	CZ	#14/4C 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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product.

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