Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



29502 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, XLP insulation, Overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage) , tinned copper drain wire, Sun- & oil-resistant PVC jacket.

Suitable Applications:

Physical Characteristics (Overall)

Conductor

Usage (Overall)

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	12	65x30	TC - Tinned Copper

Total Number of Conductors: 3

Ground Wire

j۲	ound Wire	
	Ground Wire (Y/N):	Υ
	Ground Wire AWG:	12
	Ground Wire Stranding:	65x30
	Ground Wire Conductor Material:	TC - Tinned Copper
	Ground Wire Insulation Material:	PVC - Polyvinyl Chloride

AC Motor Drives, VFD, Variable Frequency Drive

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	
XLP - Cross Linked Polyolefin	1.143	

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
4	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:

ı	AWG	Stranding	Drain Wire Conductor Material
	12	65x30	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.854

Overall Cable

Overall Nominal Diameter: 16.002 mm

Mechanical Characteristics (Overall)

Wet Temperature Range:	-40°C To +90°C
Dry Temperature Range:	-40°C To +90°C
Bulk Cable Weight:	372.050 Kg/Km

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Max. Recommended Pulling Tension:	1494.595 N
Min. Bend Radius/Minor Axis:	127 mm
Applicable Specifications and Agency Compliance	e (Overall)
Applicable 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)	
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Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.646357

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 154.207

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 5.2496

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

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	157.500 LB	BLACK	CZ	#12/4C XLPE SHPVC
29502 0105000	5,000 FT	1,500.000 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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