Detailed Specifications & Technical Data



29504 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 cond. plus (1)ground wire with PVC insulation, XLP insulation, overall Duofoil® (100% cov.) plus a tinned copper braid shield (85% cov.), with tinned copper sectioned drain wire,Sun-&oil-resistant PVC jacket.

AC Motor Drives, VFD, Variable Frequency Drives
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9 7
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7x19x29
TC - Tinned Copper
PVC - Polyvinyl Chloride
300 Megaohms/1000 ft.
hield Material Coverage (%)
m Foil-Polyester Tape 100
ned Copper 85
1
1
2
m)
m

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METRIC MEASUREMENT VERSION

29504 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

Overall Cable				
Overall Nominal Diameter:	23.444 mm			
Mechanical Characteristics (Overall)				
Wet Temperature Range:	-40°C To +90°C			
Dry Temperature Range:	-40°C To +90°C			
Bulk Cable Weight:	898.873 Kg/Km			
Max. Recommended Pulling Tension:	3416.218 N			
Min. Bend Radius/Minor Axis:	190.500 mm			
Applicable Specifications and Agency C	ompliance (Overall)			
Applicable Standards & Environmental Proc	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) 62

Nom. Inductance: Inductance (µH/m)

0.593861

Nom. Capacitance Conductor to Conductor:

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Capacitance (pF/m) 98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

177.174

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

2.09984

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 I/II A/B

Max. Recommended Current:

Current

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29504 0101000	305 MT	273.971 KG	BLACK	CZ	3 #8 XLPE, #8 PVC SH PVC
29504 010250	76 MT	70.761 KG	BLACK	CZ	3 #8 XLPE, #8 PVC SH PVC
29504 0103000	914 MT	843.686 KG	BLACK		3 #8 XLPE, #8 PVC SH PVC
29504 010500	152 MT	156.944 KG	BLACK	CZ	3 #8 XLPE, #8 PVC SH PVC
29504 0105000	1,524 MT	1,381.195 KG	BLACK	CZ	3 #8 XLPE, #8 PVC 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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