

## 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.

Usage (Overall)	
Suitable Applications:	AC Motor Drives, VFD, Variable Frequency Drives
Physical Characteristics (Overall) Conductor AWG: # Conductors AWG Stranding Conductor Material	
3 8 7x19x29 TC - Tinned Copper	
Total Number of Conductors:	3
Ground Wire	
Ground Wire (Y/N):	Y
Ground Wire AWG:	8
Ground Wire Stranding:	7x19x29
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 1.524	
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® Tape Aluminum Foil-Polyester	
2 Braid   TC - Tinned Copper Outer Shield Drain Wire AWG:	85
AWG         Stranding         Drain         Wire         Conductor         Material           14 (4x)         41x30         TC - Tinned Copper	
Outer Jacket Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 2.362 Overall 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

# **Detailed Specifications & Technical Data**



### METRIC MEASUREMENT VERSION

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

Max. Recommended Pulling Tension:	3416.218 N
Min. Bend Radius/Minor Axis:	190.500 mm
oplicable Specifications and Agency Comp	
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
ame Test	
UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
uitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes

#### **Electrical Characteristics (Overall)**

om. Character	istic Imped	ance:		
Impedance (				
62				
om. Inductanc	e:			
Inductance (	µH/m)			
0.593861				
om. Capacitan	ce Conduc	tor to Co	onductor:	
Capacitance	(pF/m)			
98.43				
om. Capacitan	ce Cond. to	Other (	Conducto	r & Shie
Capacitance	(pF/m)			
177.174				
om. Conducto	r DC Resist	tance:		
DCR @ 20°C	(Ohm/km)			
2.09984				
ax. Operating	Voltage - U	L:		
ax. Operating Voltage	Voltage - U	L:		
			bly Cable)	1
Voltage	(Flexible Mo	otor Supp	bly Cable)	
Voltage 1000 V RMS	(Flexible Mo	otor Supp C)	bly Cable)	-
Voltage 1000 V RMS 600 V RMS (N	(Flexible Mo	otor Supp C) Ither:	bly Cable)	-

## **Detailed Specifications & Technical Data**



#### METRIC MEASUREMENT VERSION

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



#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29504 0101000	1,000 FT	604.000 LB	BLACK	CZ	3 #8 XLPE, #8 PVC SH PVC
29504 010250	250 FT	156.000 LB	BLACK	CZ	3 #8 XLPE, #8 PVC SH PVC
29504 0103000	3,000 FT	1,860.000 LB	BLACK		3 #8 XLPE, #8 PVC SH PVC
29504 010500	500 FT	346.000 LB	BLACK	CZ	3 #8 XLPE, #8 PVC SH PVC
29504 0105000	5,000 FT	3,345.000 LB	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.

Revision Date: 08-20-2013 Revision Number: 3

© 2015 Belden, Inc All Rights Reserved.

All Rights Reserved. Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information, and belief at the date of its publication. The information provided in this Product Disclosure, is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.