

29500 Non-Paired - 1000V UL Flexible Motor Supply Cable

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : ICEA Method 4.pdf</p>
--	---

Description:

4-cond. (3) stranded tinned copper circuit conductors, (1) ground wire with PVC insulation, XLPE insulation, Overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage) , tinned copper drain wire, Oil & Sun-resistant PVC jacket.

SUITABLE APPLICATIONS:

Suitable Applications	AC Motor Drives, EFD, Variable Frequency Drive
-----------------------	--

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Conductors	3
Total Number of Conductors	3
AWG	16
Stranding	26x30
Conductor Material	TC - Tinned Copper

GROUND WIRE:

Ground Wire (Y/N)	Y
Ground Wire AWG	16
Ground Wire Stranding	26x30
Ground Wire Conductor Material	TC - Tinned Copper
Ground Wire Insulation Material	PVC - Polyvinyl Chloride

INSULATION:

Insulation Material	XLPE - Cross Linked Polyethylene
Nom. Insulation Wall Thickness	.045 in.
Insulation Resistance	300 Megaohms/1000 ft.

Insulation Color Code Chart :

Number	Color	Number	Color
1	Black #1	3	Black #3
2	Black #2	4	Green/Yellow

OUTER SHIELD:

Outer Shield Material Trade Name	Duofoil®
----------------------------------	----------

29500 Non-Paired - 1000V UL Flexible Motor Supply Cable

Outer Shield Type		Tape/Braid		
Outer Shield Material :				
Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

Outer Shield % Coverage	100 %
Outer Shield Drain Wire AWG	16
Outer Shield Drain Wire Stranding	26x30
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
-----------------------	--------------------------

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.53 in.
--------------------------	---------

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +90°C Dry, +90°C Wet
UL Temperature Rating	90°C Wet/Dry
Bulk Cable Weight	160 lbs/1000 ft.
Max. Recommended Pulling Tension	128 lbs.
Min. Bend Radius (Install)	4.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	TC-ER, XHHW-2, RHHW-2 Type, Unlisted Singles
NEC Articles	336 - ER
CSA Specification	1000 V AWM I/II A/B
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005

FLAME TEST:

UL Flame Test	UL1685 UL Loading
CSA Flame Test	FT4
IEEE Flame Test	1202

SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suitability - Burial	Yes
Sunlight Resistance	Yes
Oil Resistance	Yes

29500 Non-Paired - 1000V UL Flexible Motor Supply Cable

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
--------------	---

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	90 Ohms
Nom. Inductance	.2298 μ H/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	21 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	38 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	4.0 Ohms/1000 ft
Max. Operating Voltage - UL	1000 V RMS (Flexible Motor Supply Cable), 600 V RMS (NEC Type TC)
Max. Operating Voltage - Other	1000 V RMS (CSA AWM I/II A/B)
Max. Recommended Current	18 Amps per conductor @ 25°C

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
29500 010100	#16/4C XLPE SH PVC	100	21.2	BLACK	
29500 0101000	#16/4C XLPE SHPVC	1000	182	BLACK	C Z
29500 010250	#16/4C XLPE SHPVC	250	46.25	BLACK	C Z
29500 010500	#16/4C XLPE SHPVC	500	93	BLACK	C Z
29500 0106000	#16/4C XLPE SH PVC	6000	1080	BLACK	C Z

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 Number: 1 Revision Date: 02-09-2006

29500 Non-Paired - 1000V UL Flexible Motor Supply Cable

© Copyright 2006 Belden, Inc
All Rights Reserved.

Although Belden ("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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. 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.

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