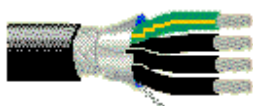


29506 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

For more Information
please call

1-800-Belden1

**Description:**

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

Usage (Overall)

Suitable Applications: AC Motor Drive, VFD, Variable Frequency Drive

Physical Characteristics (Overall)**Conductor**

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 3 | 4 | 7x19x25 | TC - Tinned Copper |

Ground Wire

| | |
|---|--------------------------|
| Ground Wire (Y/N): | Y |
| Ground Wire AWG: | 4 |
| Ground Wire Stranding: | 7x19x25 |
| Ground Wire Conductor Material: | TC - Tinned Copper |
| Ground Wire Insulation Material: | PVC - Polyvinyl Chloride |

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|----------------------------------|----------------------|
| XLPE - Cross Linked Polyethylene | .060 |

Insulation Resistance: 300 Megaohms/1000 ft.

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|---------|-----------|-------------------------------|
| 10 (4x) | 105x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 1.160 in.

Mechanical Characteristics (Overall)

| | |
|-------------------------------|-------------------|
| UL Temperature Rating: | 90°C Wet/Dry |
| Bulk Cable Weight: | 1129 lbs/1000 ft. |

29506 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

| | |
|--|-----------|
| Max. Recommended Pulling Tension: | 1940 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 9.300 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|--------------------------------------|
| NEC/(UL) Specification: | TC-ER, Unlisted Singles, WTTC |
| NEC Articles: | 336 - ER |
| CSA Specification: | 1000 V AWM I/II A/B |
| 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)

50

Nom. Inductance:

Inductance (μH/ft)

.161

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

37

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

67

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

0.26

Max. Operating Voltage - UL:

Voltage

29506 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

1000 V RMS (Flexible Motor Supply Cable)

600 V RMS (NEC Type TC)

Max. Recommended Current:**Current**

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

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|--------------|-------|-------|------------------|
| 29506 0101000 | 1,000 FT | 1,231.000 LB | BLACK | C Z | #4/4C XLPE SHPVC |
| 29506 010250 | 250 FT | 319.500 LB | BLACK | C Z | #4/4C XLPE SHPVC |
| 29506 0103000 | 3,000 FT | 3,843.000 LB | BLACK | C Z | #4/4C XLPE SHPVC |

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 Number: 1 Revision Date: 10-19-2011

© 2012 Belden, Inc.
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 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 this 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.