Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



29506 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% 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 7x19x25 TC - Tinned Copper **Total Number of Conductors:** 3 **Ground Wire** Ground Wire (Y/N): **Ground Wire AWG:** 4 **Ground Wire Stranding:** 7x19x25 **Ground Wire Conductor Material:** TC - Tinned Copper

PVC - Polyvinyl Chloride

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	
XLP - Cross Linked Polyolefin	0.060	

Insulation Resistance: 300 Megaohms/1000 ft.

Insulation Color Code Chart:

Number	Color
2	Black and Numbered 1
3	Black and Numbered 2
4	Black and Numbered 3
1	Green/Yellow

Ground Wire Insulation Material:

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	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.093

Overall Cable

Overall Nominal Diameter: 1.163 in.

Mechanical Characteristics (Overall)

Wet Temperature Range:	-40°C To +90°C
Dry Temperature Range:	-40°C To +90°C
Bulk Cable Weight:	1129 lbs/1000 ft.

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Max. Recommended Pulling Tension:	1940 lbs.
Min. Bend Radius/Minor Axis:	9.300 in.
Applicable Specifications and Agency Comp	liance (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)	
Nom. Characteristic Impedance:	

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29506 0101000	1,000 FT	1,157.000 LB	BLACK	CZ	3 #4 XLPE, #4 PVC SH HMF
29506 010250	250 FT	319.750 LB	BLACK	CZ	3 #4 XLPE, #4 PVC SH HMF
29506 0102500	2,500 FT	2,782.500 LB	BLACK		3 #4 XLPE, #4 PVC SH HMF
29506 0103000	3,000 FT	3,594.000 LB	BLACK	CZ	3 #4 XLPE, #4 PVC SH HMF

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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