

29538 Multi-Conductor - 2000V 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% coverage) plus a tinned copper braid shield (85% coverage) , tinned copper 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	10	105x30	TC - Tinned Copper

Ground Wire

Ground Wire (Y/N):	Y
Ground Wire AWG:	10
Ground Wire Stranding:	105x30
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	0.060

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	105x30	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.788 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C Dry

UL Temperature Rating: +90°C Wet

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Bulk Cable Weight:	416 lbs/1000 ft.
Max. Recommended Pulling Tension:	592 lbs.
Min. Bend Radius (Install)/Minor Axis:	7.900 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:	2000V 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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
71.000

Nom. Inductance:

Inductance (µH/ft)
0.184

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
34.000

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
61.000

Nom. Conductor DC Resistance:

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DCR @ 20°C (Ohm/1000 ft)

0.988

Max. Operating Voltage - UL:

Voltage

2000 V RMS (Flexible Motor Supply Cable)

2000 V RMS (NEC Type TC)

Max. Recommended Current:

Current

40 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
29538 0101000	1,000 FT	481.000 LB	BLACK		4 #10 XLPE SH PVC
29538 0105000	5,000 FT	2,270.000 LB	BLACK		4 #10 XLPE SH PVC

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