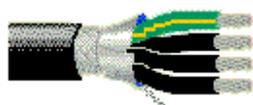


## 29538 Multi-Conductor - 2000V UL Flexible Motor Supply Cable



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, 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

**Total Number of Conductors:** 3

#### 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 (mm)
XLPE - Cross Linked Polyethylene	1.524

**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:** 20.015 mm

### Mechanical Characteristics (Overall)

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

## 29538 Multi-Conductor - 2000V UL Flexible Motor Supply Cable

UL Temperature Rating:	+90°C Wet
Bulk Cable Weight:	619.091 Kg/Km
Max. Recommended Pulling Tension:	2633.334 N
Min. Bend Radius/Minor Axis:	200.660 mm

### Applicable Specifications and Agency Compliance (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:	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/m)

0.603704

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

111.554

#### Nom. Capacitance Cond. to Other Conductor & Shield:

METRIC MEASUREMENT VERSION

## 29538 Multi-Conductor - 2000V UL Flexible Motor Supply Cable

**Capacitance (pF/m)**

200.141

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/km)**

3.24163

**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)

### 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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