

## 29542 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 sectioned drain wire, sun- & oil-resistant PVC jacket.

**Usage (Overall)**

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

**Physical Characteristics (Overall)****Conductor**

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	2	7x19x23	TC - Tinned Copper

Total Number of Conductors: 3

**Ground Wire**

Ground Wire (Y/N): Y

Ground Wire AWG: 2

Ground Wire Stranding: 7x19x23

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	0.070

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
8 (4x)	133x29	TC - Tinned Copper

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 1.360 in.

**Mechanical Characteristics (Overall)**

UL Temperature Rating: 90°C Wet/Dry

Bulk Cable Weight: 1630 lbs/1000 ft.

Max. Recommended Pulling Tension: 3088 lbs.

Min. Bend Radius/Minor Axis: 13.600 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: TC-ER, Unlisted Singles, WTTTC

## 29542 Multi-Conductor - 2000V UL Flexible Motor Supply Cable

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
MIL Order #39 (China RoHS):	Yes
Other Specification:	2000V UL Flexible Motor Supply Cable

## 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

## Plenum/Non-Plenum

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

## Nom. Characteristic Impedance:

Impedance (Ohm)

50.000

## Nom. Inductance:

Inductance (μH/ft)

.153

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

49.000

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

Capacitance (pF/ft)

88.000

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

0.16

## Max. Operating Voltage - UL:

Voltage

2000 V RMS (Flexible Motor Supply Cable)

2000 V RMS (NEC Type TC)

## Max. Recommended Current:

Current

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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29542 0101000	1,000 FT	1,898.000 LB	BLACK		4 #2 XLPO SH PVC
29542 0102000	2,000 FT	3,520.000 LB	BLACK		4C2 133STR VFD 2000V

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