

## 29536 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 XLPE 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 Drive

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

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	14	41x30	TC - Tinned Copper

Total Number of Conductors: 3

**Ground Wire**

Ground Wire (Y/N): Y

Ground Wire AWG: 14

Ground Wire Stranding: 41x30

Ground Wire Conductor Material: TC - Tinned Copper

Ground Wire Insulation Material: XLPE - Cross Linked Polyethylene

**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
14	41x30	TC - Tinned Copper

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 17.272 mm

**Mechanical Characteristics (Overall)**

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

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UL Temperature Rating:	90°C Wet/Dry
Bulk Cable Weight:	407.767 Kg/Km
Max. Recommended Pulling Tension:	943.018 N
Min. Bend Radius/Minor Axis:	172.720 mm

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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):	12/18/2009
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

## Plenum/Non-Plenum

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

## Nom. Characteristic Impedance:

Impedance (Ohm)

87.000

## Nom. Inductance:

Inductance (µH/m)

0.698853

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

85.306

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

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**Capacitance (pF/m)**

153.551

**Nom. Conductor DC Resistance:****DCR @ 20°C (Ohm/km)**

8.26812

**Max. Operating Voltage - UL:****Voltage**

1000 V RMS (Flexible Motor Supply Cable)

2000 V RMS (NEC Type TC)

**Max. Operating Voltage - Other:****Voltage Description**

1000 V RMS CSA AWM I/II A/B

**Max. Recommended Current:****Current**

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29536 0101000	1,000 FT	338.000 LB	BLACK		4 #14 XLPE SH PVC
29536 0105000	5,000 FT	1,490.000 LB	BLACK		4 #14 XLPE SH PVC

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