

## 29528F Multi-Conductor - 1000V UL Flexible Motor Supply Cable



For more Information  
please call

1-800-Belden1



### General Description:

3-cond. (3)stranded tinned copper circuit conductors plus (3) symmetrical tinned copper ground wires, XLP insulation, XLP insulation, two spiral copper tape shields (100% Coverage), sun- and oil-resistant TPE jacket.

### Usage (Overall)

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material
3	1	19x44x30	TC - Tinned Copper

Total Number of Conductors: 3

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 6

Ground Wire Stranding: 7x37x30

Ground Wire Conductor Material: TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
XLPE - Cross Linked Polyethylene	1.4478

#### Outer Shield

##### Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Spiral Copper	100
2	Tape	Spiral Copper	100

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
TPE - Thermoplastic Elastomer	2.108

#### Overall Cable

Overall Nominal Diameter: 31.572 mm

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 2141.520 Kg/Km

Max. Recommended Pulling Tension: 11787.730 N

Min. Bend Radius/Minor Axis: 157.480 mm

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER, XHHW-2 Singles
CEC/C(UL) Specification:	600V Type RW90 TC
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):	11/09/2005
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
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 - Oil Res II

### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/m)
0.479026

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
144.364

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

Capacitance (pF/m)
259.199

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
0.42653

#### Max. Operating Voltage - UL:

Voltage
1000 V RMS (Flexible Motor Supply Cable)
600 V RMS (NEC Type TC)

#### Max. Recommended Current:

Current
150 Amps per conductor @ 30°C (per NEC)

### Put Ups and Colors:

## 29528F Multi-Conductor - 1000V UL Flexible Motor Supply Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29528F 0103000	3,000 FT	4,743.000 LB	BLACK		3 #1 XLPE + 3 #6 GRD DBCFS TPE

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