

**29507 Multi-Conductor - 1000V 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% cov.) plus a tinned copper braid shield (85% cov.), 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

**Ground Wire**

<b>Ground Wire (Y/N):</b>	Y
<b>Ground Wire AWG:</b>	2
<b>Ground Wire Stranding:</b>	7x19x23
<b>Ground Wire Conductor Material:</b>	TC - Tinned Copper
<b>Ground Wire Insulation Material:</b>	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
8 (4x)	133x29	TC - Tinned Copper

**Outer Jacket**

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cabling**

**Overall Nominal Diameter:** 33.274 mm

**Mechanical Characteristics (Overall)**

<b>UL Temperature Rating:</b>	90°C Wet/Dry
<b>Bulk Cable Weight:</b>	2425.766 Kg/Km

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Max. Recommended Pulling Tension:	13736.042 N
Min. Bend Radius (Install)/Minor Axis:	273.050 mm

**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

**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)

46

**Nom. Inductance:**

Inductance (μH/m)

0.501993

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)

131.24

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

Capacitance (pF/m)

236.232

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)

0.52496

**Max. Operating Voltage - UL:**

Voltage

## METRIC MEASUREMENT VERSION

## 29507 Multi-Conductor - 1000V UL Flexible Motor Supply Cable

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

**Max. Recommended Current:**

<b>Current</b>
130 Amps per conductor @ 30°C (per NEC)

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29507 0101000	305 MT	801.048 KG	BLACK	C Z	#2/4C XLPE SHPVC
29507 0102000	610 MT	1,589.395 KG	BLACK	C Z	#2/4C XLPE SH PVC
29507 010250	76 MT	198.561 KG	BLACK	C Z	#2/4C XLPE SHPVC
29507 010500	152 MT	411.864 KG	BLACK	C Z	#2/4C XLPE SHPVC

**Notes:**

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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