

29527C Multi-Conductor - 600V VFD



For more Information
please call

1-800-Belden1

**General Description:**

2 AWG stranded (7x10) bare copper circuit conductors plus (3) 10 AWG stranded (7x18) symmetrical bare copper ground wires, XLPE insulation, two spiral copper tape shields (100% Coverage), sun- and 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	7x10	BC - Bare Copper

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 10

Ground Wire Stranding: 7x18

Ground Wire Conductor Material: BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	0.046

Insulation Color Code Chart:

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Spiral Copper	100.000
2	Tape	Spiral Copper	100.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.083

Overall Cable

Overall Nominal Diameter: 0.990 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 984 lbs/1000 ft.

Max. Recommended Pulling Tension: 2300 lbs.

Min. Bend Radius/Minor Axis: 10 in.

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

NEC/(UL) Specification: TC-ER, XHHW-2 Singles

CSA Specification: 1000 V AWM I/II A/B

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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): 08/16/2007

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, VW-1 (Singles)

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

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

0.160

Max. Operating Voltage - UL:

Voltage	Description
600 V RMS	NEC Type TC

Max. Operating Voltage - Other:

Voltage	Description
1000 V RMS	CSA AWM I/II A/B

Max. Recommended Current:

Current
130 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29527C 0102000	2,000 FT	2,106.000 LB	BLACK		3 #2 XLPE+3#10 GRD CU TAPE PVC
29527C 0105000	5,000 FT	5,365.000 LB	BLACK		3 #2 XLPE+3#10 GRD CU TAPE PVC

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