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1-800-Belden1



### General Description:

3 - 8 AWG stranded (7x16) bare copper circuit conductors plus (3) - 14 AWG stranded (7x22) 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	8	7x16	BC - Bare Copper

Total Number of Conductors: 3

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 14

Ground Wire Stranding: 7x22

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
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.646 in.

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 90°C Wet/Dry

Bulk Cable Weight: 340 lbs/1000 ft.

Max. Recommended Pulling Tension: 576 lbs.

Min. Bend Radius/Minor Axis: 6.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

NEC Articles:	336 - ER
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):	08/17/2007
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
PMSHA Specification:	P-07-KA070003-MSHA

**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
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**Electrical Characteristics (Overall)**

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
0.640

**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:**

<b>Current</b>
55 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29524C 0101000	1,000 FT	444.000 LB	BLACK		3 #8 XLPE+3#14 GRD CU TAPE PVC
29524C 0105000	5,000 FT	1,920.000 LB	BLACK		3 #8 XLPE+3#14 GRD CU TAPE PVC

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