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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 (mm)
XLPE - Cross Linked Polyethylene	1.168

#### 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: 16.408 mm

## Mechanical Characteristics (Overall)

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

UL Temperature Rating:	90°C Wet/Dry
Bulk Cable Weight:	505.988 Kg/Km
Max. Recommended Pulling Tension:	2562.163 N
Min. Bend Radius/Minor Axis:	165.100 mm

## 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:

DCR @ 20°C (Ohm/km)
2.100

### 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
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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