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1-800-Belden1



## General Description:

2/0 AWG - 3 stranded (19x12) bare copper circuit conductors plus (3) 10 AWG stranded (7x28) 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	2/0	19x12	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 (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)
PVC - Polyvinyl Chloride	2.159

### Overall Cable

Overall Nominal Diameter: 32.766 mm

## Mechanical Characteristics (Overall)

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

UL Temperature Rating: 90°C Wet/Dry

Bulk Cable Weight: 2580.539 Kg/Km

Max. Recommended Pulling Tension: 18682.440 N

Min. Bend Radius/Minor Axis: 336.550 mm

## 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
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

### 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

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Inductance:

Inductance (µH/m)	0.462621
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### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)	150.926
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### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)	272.323
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### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	0.259199
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### Max. Operating Voltage - UL:

Voltage	600 V RMS (NEC Type TC)
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### Max. Recommended Current:

Current	195 Amps per conductor @ 30°C (per NEC)
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## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29530C 0102000	2,000 FT	3,726.000 LB	BLACK		3C2/0 BELDEN BASICS VFD 600V

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