



**Product:** [29530C](#)

VFD, 3C #2/0 Str BC XLPE Ins + #5 Symm. Seg. Gnd (3 of #10) Str BC, CTS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

[Request Sample](#)

## Product Description

Belden Basics VFD, 3 Conductor 2/0AWG (19x12) Bare Copper XLPE Insulation M4 Color Code + 5AWG Symmetrical Segmented Ground (3 of 10AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 1000V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B SUN RES DIR BUR Oil Resistant

## Technical Specifications

### Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems
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### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material	Notes
Conductor(s)	3	2/0	19x12	BC - Bare Copper	
Ground	3	10	7x18	BC - Bare Copper	Segmented Grounds

#### Insulation

Element	Material	Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.057 in	Black and Numbered
Ground	No Insulation		

#### Outer Shield Material

Shield Type	Material	Coverage
Helical Tape + Helical Tape	Bare Copper (BC) + Bare Copper (BC)	100% + 100%

#### Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in	1.305 in	Yes

Cable Diameter (Nominal):	1.305 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.26 Ohm/1000ft	37 pF/ft	67 pF/ft	50 Ohm	0.55%	195 Amps per Conductor at 30°C (per NEC)

#### Voltage

<b>UL Voltage Rating</b>
1000 V (TC, CSA AWM I/II A/B)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating
90°C Dry, 90°C Wet	-40°C To +90°C

## Bend Radius

Stationary Min.	Installation Min.
13.25 in	15.7 in

Max. Pull Tension:	4893 lbs
Bulk Cable Weight:	1724 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, IEEE 1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	TC-ER, XHHW-2
AWM Compliance:	I/II A/B
ICEA Compliance:	S-95-658
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-07-KA070003-MSHA

## History

Update and Revision:	Revision Number: 0.327 Revision Date: 09-30-2020
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