



**Product:** [29721C](#)

VFD, 3C #14 Str BC XLPE Ins + #14 Symm. Seg. Gnd (3 of #18) Str BC, CTS, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

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## Product Description

Belden Basics VFD, 3 Conductor 14AWG (7x22) Bare Copper XLPE Insulation M4 Color Code + 14AWG Symmetrical Segmented Ground (3 of 18AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 2000V 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; High voltage requirements
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### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material	Notes
Conductor(s)	3	14	7x22	BC - Bare Copper	
Ground	3	18	7x26	BC - Bare Copper	Segmented Grounds

#### Insulation

Element	Material	Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.063 in (1.6 mm)	0.197 in (5.00 mm)	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	0.063 in (1.6 mm)	0.566 in (14.4 mm)	Yes

Cable Diameter (Nominal):	0.566 in (14.4 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	2.253 Ohm/1000ft (7.392 Ohm/km)	21 pF/ft (69 pF/m)	38 pF/ft (120 pF/m)	38 pF/ft (120 pF/m)	90 Ohm	55%	25 Amps per Conductor at 30°C

#### Voltage

UL Voltage Rating
2000 V (TC), 1000 V (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.
6.8 in (170 mm)	6.8 in (170 mm)

Max. Pull Tension:	231 lbs (105 kg)
Bulk Cable Weight:	185 lbs/1000ft (275 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, RHW-2
AWM Compliance:	I/II A/B
ICEA Compliance:	S-95-658
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), 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: 0.59 Revision Date: 07-06-2021
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