



Product: [29729C](#)

VFD, 3C #1/0 Str BC XLPE Ins + #5 Symm. Seg. Gnd (3 of #10) Str BC, CTS, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

Product Description

Belden Basics VFD, 3 Conductor 1/0AWG (19x13) 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, 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	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	1/0 AWG	19x13	BC - Bare Copper	ASTM B3 Copper B8 Class B Stranding
Ground	3	10 AWG	7x18	BC - Bare Copper	Segmented Grounds

Insulation				
Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.093 in (2.4 mm)	0.548 in (13.9 mm)	Black and Numbered
Ground	No Insulation			

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

Outer Jacket			
Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.359 in (34.52 mm)	Yes
Overall Cable Diameter (Nominal):		1.359 in (34.52 mm)	

Electrical Characteristics

Electricals						
Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.103 Ohm/1000ft (0.338 Ohm/km)	29 pF/ft (95 pF/m)	53 pF/ft (170 pF/m)	63 Ohm	55%	170 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 Temperature	Operating

90°C Dry, 90°C Wet	-40°C To +90°C
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Bend Radius

Stationary Min.	Installation Min.
16.3 in (414 mm)	16.3 in (414 mm)

Max. Pull Tension:	3958 lbs (1795 kg)
Bulk Cable Weight:	1528 lbs/1000ft (2274 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, 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: 0.76 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Putup Type	UPC
29729C 0101000	Reel	612825445630
29729C 0101500	Reel	612825445647
29729C 0103000	Reel	612825445654

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