



Product: [29532C](#)

VFD, 3C #4/0 Str BC XLPE Ins + #3 Symm. Seg. Gnd (3 of #8) Str BC, CTS, Bk PVC Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

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Product Description

Belden Basics VFD, 3 Conductor 4/0AWG (19x10) Bare Copper XLPE Insulation M4 Color Code + 3AWG Symmetrical Segmented Ground (3 of 8AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 600/1000V 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; Class 1 Division 2 Hazardous Locations
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	4/0 AWG	19x10	BC - Bare Copper	ASTM B3 Copper B8 Class B Stranding
Ground Wire	3	8 AWG	7x16	BC - Bare Copper	Segmented Ground (3AWG Total of 3)

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.059 in (1.5 mm)	0.630 in (16.0 mm)	ICEA Chart M4
Ground Wire	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)	1.536 in (39.01 mm)	Yes

Overall Cable Diameter (Nominal):	1.536 in (39.01 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.052 Ohm/1000ft	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)	56 Ohm	55%	260 Amps per Conductor at 30°C (per NEC)
	0.021 Ohm/1000ft (0.069 Ohm/km)					

Voltage

UL Voltage Rating	Voltage Rating
1000 V (TC-ER)	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

Bend Radius

Stationary Min.	Installation Min.
18.4 in (467 mm)	18.4 in (467 mm)

Max. Pull Tension:	8250 lbs (3740 kg)
Bulk Cable Weight:	2576 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202 FT4, FT4
NEC / UL Compliance:	Article 336, TC-ER, XHHW-2
AWM Compliance:	AWM 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: 0.644 Revision Date: 06-19-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
29532C 0101500	Black	Reel	1,500 m	612825138273

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