



Product: 29524C ☑

VFD, 3C #8 Str BC XLPE Ins + #10 Symm. Seg. Gnd (3 of #14) Str BC, CTS, Blk PVC Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

Request Sample

Product Description

Belden Basics VFD, 3 Conductor 8AWG (7x16) Bare Copper XLPE Insulation M4 Color Code + 10AWG Symmetrical Segmented Ground (3 of 14AWG) 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		
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material	Notes
Conductor(s)	3	8 AWG	7x16	BC - Bare Copper	
Ground Wire	3	14 AWG	7x22	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.047 in (1.2 mm)	0.236 in (5.99 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	0.063 in (1.6 mm)	0.646 in (16.4 mm)	Yes
Ī	Overall Cable Diameter (Nominal):	0.646 in (16.4 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)	0.564 Ohm/1000ft	37 pF/ft (120 pF/m)	67 pF/ft (220 pF/m)	50 Ohm	55%	55 Amps per Conductor at 30°C
	2.73 Ohm/1000ft (8.96 Ohm/km)					55 Amps per Conductor at 25°C

Voltage

UL Voltage Rating 600 / 1000 V (TC-ER)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
7.8 in (200 mm)	7.8 in (200 mm)

Max. Pull Tension:	678 lbs (308 kg)	
Bulk Cable Weight:	350 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
NEC / UL Compliance:	Article 336, TC-ER
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: 0.528 Revision Date: 07-15-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
29524C 0105000	Black	Reel	5,000 ft	612825137726

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