

Product: 29525C

VFD, 3C #6 Str BC XLPE Ins + #6 Symm. Seg. Gnd (3 of #12) 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 6AWG (7x14) Bare Copper XLPE Insulation M4 Color Code + 6AWG Symmetrical Segmented Ground (3 of 12AWG) 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	6 AWG	7x14	BC - Bare Copper	ASTM B3 Copper B8 Class B Stranding
Ground Wire	3	12 AWG	7x20	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPO - Crosslink Polyolefin	0.047 in (1.2 mm)	0.272 in (6.91 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)	0.724 in (18.4 mm)	Yes

Overall Cable Diameter (Nominal):	0.724 in (18.4 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)	0.355 Ohm/1000ft	32 pF/ft (100 pF/m)	63 pF/ft (210 pF/m)	37 Ohm	55%	75 Amps per Conductor at 30ºC
	1.72 Ohm/1000ft (5.64 Ohm/km)					30 Amps per Conductor at 30ºC

Voltage

UL Voltage Rating
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.
8.7 in (220 mm)	8.7 in (220 mm)

Max. Pull Tension:	1304.1 lbs (591.53 kg)
Bulk Cable Weight:	461 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
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: 0.638 Revision Date: 05-31-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
29525C 0101000	Black	Reel	1,000 ft	612825137733
29525C 0105000	Black	Reel	5,000 ft	612825137771

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