



Product: <u>29551C</u> ☑

VFD, 3C #12 Str BC XLPE Ins + #12 Symm. Seg. Gnd (3 of #16) Str BC, CTS, Blk PVC Jkt, 1000V CSA TC C22.2 #230 C22.2 #38

😭 Request Sample

Product Description

Belden Basics CSA VFD, 3 Conductor 12AWG (7x20) Bare Copper XLPE Insulation M4 Color Code + 12AWG Symmetrical Segmented Ground (3 of 16AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 1000V CSA TC C22.2 #230 C22.2 #38 SUN RES DIR BUR Oil Resistance

Technical Specifications

Product Overview

Suitable Applications: Variable Frequency Drives (VFD); AC Motor and Drive Systems; Specific ratings for applications in Canada

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material	Notes
Conductor(s)	3	12 AWG	7x20	BC - Bare Copper	
Ground	3	16 AWG	7x24	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.045 in (1.1 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	0.058 in (1.5 mm)	0.533 in (13.5 mm)	Yes
Overall Cable Diameter (Nominal):		0.533 in (13.5 mm)	

Electrical Characteristics

Electricals

Eleme	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conducto	(s) 1.438 Ohm/1000ft (4.718 Ohm/km)	30 pF/ft (98 pF/m)	54 pF/ft (180 pF/m)	62 Ohm	55%	30 Amps per Conductor at 30°C

Voltage

UL Voltage Rating 1000 V (CSA TC)

Mechanical Characteristics

Temperature

Operating

Bend Radius

Stationary Min. Installation Min.	
6.4 in (160 mm) 6.4 in (160 mm)	
Max. Pull Tension:	367 lbs (166 kg)
Bulk Cable Weight:	201 lbs/1000ft (299 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
CEC / C(UL) Compliance:	TC, RW90, C22.2 #230, #38
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)
History	

Update and Revision:

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