



Product: [29551C](#)

VFD, 3C #12 Str BC XLPE Ins + #12 Symm. Seg. Gnd (3 of #16) Str BC, CTS, BIK 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
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Construction Details

Conductor

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

Insulation

Element	Material	Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.045 in	Black and Numbered
Ground	No Insulation		

Outer Shield Material

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

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.058 in	0.533 in	Yes

Cable Diameter (Nominal):	0.533 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.64 Ohm/1000ft	30 pF/ft	54 pF/ft	62 Ohm	0.55%	30 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
1000 V (CSA TC)

Mechanical Characteristics

Temperature

Operating
-40°C To 90°C

Bend Radius

Stationary Min.	Installation Min.
4.6 in	6.4 in

Max. Pull Tension:	367 lbs
Bulk Cable Weight:	201 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	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, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.246 Revision Date: 09-30-2020
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