



Product: 29535 ☑

VFD, 3C 500MCM Str BC XLPE Ins + #2 Symm. Seg. Gnd (3 of #6) Str BC, CTS, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 1000V CSA 22.2 No. 230 TC

Request Sample

Product Description

Belden Basics VFD, 3 Conductor 500MCM (37x.1162") Bare Copper XLPE Insulation M4 Color Code + 2AWG Symmetrical Segmented Ground (3 of 6AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 2000V TC-ER 90C Dry/Wet 1000V CSA 22.2 No. 230 TC 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	Number of Element	Size	Stranding	Material	Notes
Conductor(s)	3	500 MCM	37x0.1162 in.	BC - Bare Copper	
Ground Wire	3	6 AWG	7x14	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.105 in (2.67 mm)	0.999 in (25.4 mm)	ICEA Method 4
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	0.110 in (2.79 mm)	2.41 in (61.2 mm)	Yes
Overall Cable Diameter (I	Nominal):	2.41 in (61.2 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)	0.02 Ohm/1000ft	30 pF/ft (98 pF/m)	54 pF/ft (180 pF/m)	62 Ohm	55%	430 Amps per Conductor at 30°C (per NEC)
	0.43 Ohm/1000ft (1.4 Ohm/km)					75 Amps per Conductor at 25°C

Voltage

UL Voltage Rating	Voltage Rating
2000 V (TC, UL44)	1000 V (CSA TC)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
28.9 in (734 mm)	28.9 in (734 mm)

Max. Pull Tension:	1610 lbs (730 kg)
Bulk Cable Weight:	6749 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, RHW-2
CEC / C(UL) Compliance:	CSA TC
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:	Revision Number: 0.498 Revision Date: 06-30-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
29535 0101300	Black	Reel	1,300 ft	612825138389

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