



REPRESENTATIVE IMAGE

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	AWG	Stranding	Material	Notes
Conductor(s)	3	500 MCM	37x0.1162 in.	BC - Bare Copper	
Ground	3	6	7x14	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.105	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	0.110 in	2.410 in	Yes

Cable Diameter (Nominal): 2.410 in

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%	430 Amps per Conductor at 30°C (per NEC)

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
43.4 in	28.9 in

Max. Pull Tension:	12000 lbs
Bulk Cable Weight:	6749 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, RHW-2
CEC / C(UL) Compliance:	TC, RW90
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: 0.366 Revision Date: 09-30-2020
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