



Product: [29534](#)

VFD, 3C 350MCM 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

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Product Description

Belden Basics VFD, 3 Conductor 350MCM (37x.0973") 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
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	350 MCM	37x0.0973 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)	0.821 in (20.9 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)	2.133 in (54.18 mm)	Yes

Overall Cable Diameter (Nominal):	2.133 in (54.18 mm)
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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)	0.029 Ohm/1000ft	21 pF/ft (69 pF/m)	38 pF/ft (120 pF/m)	90 Ohm	55%	350 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.
25.6 in (650 mm)	25.6 in (650 mm)

Max. Pull Tension:	1910 lbs (866 kg)
Bulk Cable Weight:	4736 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: 0.516 Revision Date: 05-31-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
29534 0101500	Black	Reel	1,500 m	612825138358
29534 0101750	Black	Reel	1,750 ft	612825138365

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