



Product: [1229530](#)

VFD 100% Gnd, 3C #2/0 Str TC XLPE Ins + #2/0 Symm. Seg. Gnd (3 of #4+) Str BC, CTS, PVC Jkt, AIA Armor, Blk PVC Jkt, 600V MC 90C Dry/Wet

Product Description

Belden 100% Ground Flexible VFD, 3 Conductor 2/0AWG (7x19x20) Tinned Copper XLPE Insulation M4 Color Code + 2/0AWG Symmetrical Segmented Ground (3 of 4AWG+) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, PVC Inner Jacket, Aluminum Interlock Armor, Black PVC Outer Jacket, 600V MC 90C Dry/Wet SUN RES DIR BUR CT USE Oil Resistant

Technical Specifications

Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems; Exposure to rodents, crush or impact forces
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material	Notes
Conductor(s)	3	2/0 AWG	7x19x20	TC - Tinned Copper	
Ground	3	4 AWG	7x19x25	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.057 in (1.4 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%

Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	1.368 in (34.75 mm)

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	1.745 in (44.32 mm)	Yes

Overall Cable Diameter (Nominal):	1.745 in (44.32 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 Impedance	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.075 Ohm/1000ft (0.25 Ohm/km)	45 pF/ft (150 pF/m)	81 pF/ft (270 pF/m)	41 Ohm	55%	195 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V (MC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-25°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
20.9 in (531 mm)	20.9 in (531 mm)

Max. Pull Tension:	6543 lbs (2968 kg)
Bulk Cable Weight:	2561 lbs/1000ft (3811 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, MC, XHHW-2
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.69 Revision Date: 12-20-2022
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