



Product: [1229528](#) 

VFD 100% Grd, 3C #1 Str TC XLPE Ins + #1 Symm. Seg. Grd (3 of #6+) Str BC, CTS, PVC Inner Jkt, AIA, Blk PVC Outer Jkt, 600V MC 90C Dry/Wet CT USE

Product Description

Belden 100% Ground Flexible VFD, 3 Conductor 1AWG (7x19x22) Tinned Copper XLPE Insulation M4 Color Code + 1/0AWG Symmetrical Segmented Ground (3 of 6AWG+) 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	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	1 AWG	7x19x22	TC - Tinned Copper	
Ground	3	6 AWG	7x19x27	BC - Bare Copper	Segmented Grounds

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.057 in (1.4 mm)	0.470 in (11.9 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	1.197 in (30.40 mm)

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.057 in (1.4 mm)	1.531 in (38.89 mm)	Yes

Overall Cable Diameter (Nominal):	1.531 in (38.89 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)	0.118 Ohm/1000ft (0.387 Ohm/km)	45 pF/ft (150 pF/m)	81 pF/ft (270 pF/m)	41 Ohm	55%	24 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.
18.4 in (467 mm)	18.4 in (467 mm)

Max. Pull Tension:	4109 lbs (1864 kg)
Bulk Cable Weight:	1801 lbs/1000ft (2680 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL Loading, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, MC
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: 0.66 Revision Date: 04-06-2026
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