



Product: [1229500](#)

VFD 300% Gnd, 3C+G #16 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#16 TC Drain, PVC Jkt, AIA Armor, Blk PVC Jkt, 600V MC 90C Dry/Wet

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 16AWG (26x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/#6AWG Tinned Copper Drain, 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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Physical Characteristics (Overall)

Conductor				
Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	16	26x30	TC - Tinned Copper	3
Ground	16		TC - Tinned Copper	1
Conductor Count:		3		

Insulation		
Element	Material	Nominal Wall Thickness
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.046 in
Ground	PVC - Polyvinyl Chloride	0.046 in

Color Chart	
Color	
Black and Numbered	

Color Chart 2	
Color	
Green/Yellow Stripe	

Inner Jacket Material	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.535 in.

Outer Shield Material						
Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%	TC - Tinned Copper	16
Braid	2	Tinned Copper (TC)		85%		

Outer Jacket Material			
Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.857 in	0.053 in	Yes

Construction and Dimensions

Armor

Type of Armor	Material
Interlocked	Aluminum

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.13 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
44 pF/ft	79 pF/ft

Impedance

Nominal Characteristic Impedance
42 Ohm

Current

Max. Recommended Current [A]
18 Amps per Conductor at 30°C

Voltage

UL Description	UL Voltage Rating
MC	600 V

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	297 lbs/1000ft
Max. Pull Tension:	256 lbs
Min Bend Radius During Installation:	10.3 in

Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	MC, XHHW-2

Applicable Environmental and Other Programs

CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

IEEE Flammability:	1202, 383 Vertical Tray Flame Test (70,000 BTU)
UL voltage rating:	600 V

Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Update and Revision:	Revision Number: 0.49 Revision Date: 09-30-2020
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