



**Product:** [1229502](#)

VFD 300% Gnd, 3C+G #12 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#12 TC Drain, PVC Jkt, AIA Armor, Blk PVC Jkt, 600V MC 90C Dry/Wet

## Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 12AWG (65x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/12AWG 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

### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	3	12	65x30	TC - Tinned Copper
Ground	1	12	65x30	TC - Tinned Copper

#### Insulation

Element	Material	Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.046 in	0.187	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.046 in	0.187	Green/Yellow Stripe

#### Outer Shield Material

Shield Type	Material	Coverage
Tape + Braid	Tri-Laminate (Alum+Poly+Alum) + Tinned Copper (TC)	100% + 85%

#### Inner Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.630 in

#### Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

#### Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.050 in	0.960 in	Yes

Cable Diameter (Nominal): 0.960 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)	0.1 Ohm/1000ft	45 pF/ft	81 pF/ft	41 Ohm	0.55%	30 Amps per Conductor at 30°C

#### Voltage

UL Voltage Rating
600 V (MC)

## Mechanical Characteristics

### Temperature

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

### Bend Radius

Installation Min.
11.5 in

Max. Pull Tension:	395 lbs
Bulk Cable Weight:	457 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL 1685 Vertical Tray, 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, 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: 0.56 Revision Date: 09-30-2020
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