



Product: [1229505](#)

VFD 300% Gnd, 3C+G #6 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/4-#12 TC Drains, PVC Jkt, AIA Armor, Blk PVC Jkt, 600V MC 90C Dry/Wet

### Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 6AWG (7x19x27) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-12AWG Tinned Copper Drains, 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	Size	Stranding	Material
Conductor(s)	3	6 AWG	7x19x27	TC - Tinned Copper
Ground	1	6 AWG	7x19x27	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.061 in (1.5 mm)	0.328 in (8.33 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.061 in (1.5 mm)	0.328 in (8.33 mm)	Green/Yellow Stripe

##### Outer Shield

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

##### Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.095 in (2.4 mm)	1.023 in (25.98 mm)

##### Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.055 in (1.4 mm)	1.353 in (34.37 mm)	Yes

Overall Cable Diameter (Nominal):	1.353 in (34.37 mm)
-----------------------------------	---------------------

#### 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)	0.38 Ohm/1000ft (1.2 Ohm/km)	44 pF/ft (140 pF/m)	79 pF/ft (260 pF/m)	42 Ohm	55%	75 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.
16.2 in (411 mm)	16.2 in (411 mm)

Max. Pull Tension:	1358 lbs (616.0 kg)
Bulk Cable Weight:	1073 lbs/1000ft (1597 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, MC, XHHW-2
CEC / C(UL) Compliance:	FT4
IEEE Compliance:	1202
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: 0.74 Revision Date: 12-20-2022
----------------------	---

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.