



Product: [1229506](#)

VFD 300% Gnd, 3C+G #4 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/4-#10 TC Drains, PVC Jkt, AIA Armor, Blk PVC Jkt, 600V MC 90C Dry/Wet

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 4AWG (7x19x25) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-10AWG 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 | 4 AWG | 7x19x25 | TC - Tinned Copper |
| Ground | 1 | 4 AWG | 7x19x25 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--|-------------------|--------------------------|---------------------|
| Conductor(s) | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.062 in (1.6 mm) | 0.367 in (9.32 mm) | Black and Numbered |
| Ground | PVC - Polyvinyl Chloride | 0.062 in (1.6 mm) | 0.367 in (9.32 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 | 0.093 in (2.4 mm) | 1.113 in (28.27 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) | 1.510 in (38.35 mm) | Yes |

| | |
|-----------------------------------|---------------------|
| Overall Cable Diameter (Nominal): | 1.510 in (38.35 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) | 0.239 Ohm/1000ft (0.784 Ohm/km) | 44 pF/ft (140 pF/m) | 79 pF/ft (260 pF/m) | 42 Ohm | 55% | 95 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. |
|------------------|-------------------|
| 13.9 in (353 mm) | 13.9 in (353 mm) |

| | |
|--------------------|------------------------------|
| Max. Pull Tension: | 2156 lbs (977.9 kg) |
| Bulk Cable Weight: | 1461 lbs/1000ft (2174 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | 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 (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: 0.72 Revision Date: 05-04-2022 |
|----------------------|---|

© 2022 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.