



**Product:** [29542](#)

VFD 300% Gnd, 3C+G #2 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/3-#8 TC Drains, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable WTTC

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## Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 2AWG (7x19x23) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/3-8AWG Tinned Copper Drains, Black PVC Outer Jacket, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable WTTC 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Variable Frequency Drives (VFD); AC Motor and Drive Systems; High voltage requirements |
|------------------------|--|

### Construction Details

#### Conductor

| Element      | Number of Element | AWG | Stranding | Material           |
|--------------|-------------------|-----|-----------|--------------------|
| Conductor(s) | 3                 | 2   | 7x19x23   | TC - Tinned Copper |
| Ground       | 1                 | 2   | 7x19x23   | TC - Tinned Copper |

#### Insulation

| Element      | Material                                     | Thickness | Color Code          |
|--------------|--|-----------|---------------------|
| Conductor(s) | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.072 in  | Black and Numbered  |
| Ground       | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.072 in  | Green/Yellow Stripe |

#### Outer Shield Material

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

#### Outer Jacket Material

| Material                 | Thickness | Nom. Diameter | Ripcord |
|--------------------------|-----------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.088 in  | 1.361 in      | Yes     |

|                           |          |
|---------------------------|----------|
| Cable Diameter (Nominal): | 1.361 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) | 0.050 Ohm/1000ft   | 50 pF/ft                      | 90 pF/ft  | 36 Ohm                   | 0.55%                  | 130 Amps per Conductor at 30°C |

#### Voltage

| UL Voltage Rating  |
|--|
| 2000 V (TC, C(UL) TC), 1000 V (WTTC, UL Flexible Motor Supply Cable, CSA AWM I/II A/B) |

### Mechanical Characteristics

#### Temperature

| UL Rating | Operating |
|-----------|-----------|
|           |           |

90°C Dry, 90°C Wet -40°C To +90°C

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 13.6 in         | 16.3 in           |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 3327 lbs        |
| Bulk Cable Weight: | 1673 lbs/1000ft |

#### Standards and Compliance

|                                 |   |
|---------------------------------|---|
| Environmental Suitability:      | Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial  |
| Sustainability:                 | CA Prop 65  |
| Flammability / Fire Resistance: | UL1685 UL Loading, FT4, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)                            |
| NEC / UL Compliance:            | Article 336, TC-ER, WTTC, RHW-2, UL Flexible Motor Supply Cable   |
| AWM Compliance:                 | I/II A/B  |
| CEC / C(UL) Compliance:         | CIC, TC   |
| ICEA Compliance:                | S-95-658  |
| 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)   |
| Other Standard Compliance(s):   | P-07-KA070003-MSHA  |

#### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.385 Revision Date: 09-30-2020 |
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