



**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

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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 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

**Technical Specifications**

**Product Overview**

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Suitable Applications: | AC Motor drives, VFD, Variable Frequency drives |
|------------------------|-------------------------------------------------|

**Physical Characteristics (Overall)**

**Conductor**

| Element   | AWG | Stranding | Material           | No. of Conductors |
|-----------|-----|-----------|--------------------|-------------------|
| Conductor | 2   | 7x19x23   | TC - Tinned Copper | 3                 |
| Ground    | 2   | 7x19x23   | TC - Tinned Copper | 1                 |

|                  |   |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

**Insulation**

| Material                    | Nominal Wall Thickness |
|-----------------------------|------------------------|
| XLP, XLPO, XLPE (Thermoset) | 0.072 in               |
| XLP, XLPO, XLPE (Thermoset) |                        |

**Color Chart**

| Number | Color                |
|--------|----------------------|
| 1      | Black and Numbered 1 |
| 2      | Black and Numbered 2 |
| 3      | Black and Numbered 3 |
| 4      | Green/Yellow         |

**Outer Shield Material**

| Type  | Layer | Material           | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
|-------|-------|--------------------|---------------------|--------------|--------------------|---------------|
| Tape  | 1     | Alum / Poly / Alum | Duofoil®            | 100 %        | TC - Tinned Copper | 8 (4x)        |
| Braid | 2     | TC - Tinned Copper |                     | 85 %         |                    |               |

**Outer Jacket Material**

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 1.361 in         | 0.088 in               |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR |
|-----------------------|
| 0.16 Ohm/1000ft       |

**Capacitance**

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 49 pF/ft                                | 88 pF/ft                                                |

Inductance

| Nominal Inductance |
|--------------------|
| 0.153 µH/ft        |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 50 Ohm                           |

Current

| Max. Recommended Current [A]  |
|-------------------------------|
| 130 Amps per conductor @ 30°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 2000 V RMS        |
| 1000 V RMS        |

Temperature Range

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

Mechanical Characteristics

|                                  |                 |
|----------------------------------|-----------------|
| Oil Resistance:                  | Yes             |
| Bulk Cable Weight:               | 1630 lbs/1000ft |
| Max Recommended Pulling Tension: | 3088 lbs        |
| Min Bend Radius/Minor Axis:      | 13.6 in         |

Standards

|                          |                                      |
|--------------------------|--------------------------------------|
| NEC Articles:            | 336 - ER                             |
| NEC/(UL) Specification:  | TC-ER, RHW-2, WTTC                   |
| CEC/C(UL) Specification: | CIC, TC                              |
| CSA AWM Specification:   | AWM I/II A/B                         |
| PMSHA Specification:     | P-07-KA070003                        |
| Other Specification:     | 2000V UL Flexible Motor Supply Cable |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-13                    |
| 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, LS0H, Toxicity Testing

|                    |                   |
|--------------------|-------------------|
| UL Flammability:   | UL1685 UL Loading |
| CSA Flammability:  | FT4               |
| IEEE Flammability: | 1202, 383         |

|                    |                          |
|--------------------|--------------------------|
| UL voltage rating: | 2000 V RMS (NEC Type TC) |
|--------------------|--------------------------|

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 29542 0101000 | Black | Reel       | 1,000 ft | 612825138518 |
| 29542 0102000 | Black | Reel       | 2,000 ft | 612825138525 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.345 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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