



Product: [29536](#)

VFD 300% Gnd, 3C+G #14 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/#14 TC Drain, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable

 Request Sample

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 14AWG (41x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/14AWG Tinned Copper Drain, 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 | 14  | 41x30     | TC - Tinned Copper | 3                 |
| Ground    | 14  | 41x30     | TC - Tinned Copper | 1                 |

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

Insulation

| Material                    | Nominal Wall Thickness |
|-----------------------------|------------------------|
| XLP, XLPO, XLPE (Thermoset) | 0.063 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 | 14 (4x)       |
| Braid | 2     | Tinned Copper (TC) |                     | 85%          |                    |               |

Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.679 in         | 0.073 in               |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 2.52 Ohm/1000ft       |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 26 pF/ft                                | 46.8 pF/ft                                              |

Inductance

| Nominal Inductance |
|--------------------|
| 0.213 µH/ft        |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 87 Ohm                           |

Current

| Max. Recommended Current [A]  |
|-------------------------------|
| 25 Amps per Conductor at 30°C |

Voltage

| Description      | UL Voltage Rating |
|------------------|-------------------|
| CSA AWM I/II A/B | 1000 V RMS        |
|                  | 2000 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:          | 274 lbs/1000ft |
| Max. Pull Tension:          | 212 lbs        |
| Min Bend Radius/Minor Axis: | 6.8 in         |

Standards

|                       |                                      |
|-----------------------|--------------------------------------|
| NEC Articles:         | Article 336                          |
| NEC/(UL) Compliance:  | TC-ER, WTTC                          |
| CEC/C(UL) Compliance: | CIC, TC                              |
| CSA AWM Compliance:   | AWM I/II A/B                         |
| PMSHA Compliance:     | P-07-KA070003                        |
| Other Compliance:     | 1000V 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): | 2009-12-18                    |
| 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: | 1000 V RMS (Flexible Motor Supply Cable) |
|--------------------|------------------------------------------|

Plenum/Non-Plenum

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

Part Number

Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 29536 0101000 | Black | Reel       | 1,000 ft | 612825138396 |
| 29536 0105000 | Black | Reel       | 5,000 ft | 612825138402 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.349 Revision Date: 06-08-2020 |
|----------------------|--------------------------------------------------|

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