



Product: [29540](#)

VFD 300% Gnd, 3C+G #6 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/3-#12 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 6AWG (7x19x27) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/3-12AWG 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 | 6 | 7x19x27 | TC - Tinned Copper | 3 |
| Ground | 6 | 7x19x27 | TC - Tinned Copper | 1 |

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

Insulation

| Material | Nominal Wall Thickness |
|------------------------------|------------------------|
| XLPE, XLPO, XLPE (Thermoset) | 0.072 in |
| XLPE, 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 | 12 (4x) |
| Braid | 2 | Tinned Copper (TC) | | 85% | | |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 1.049 in | 0.095 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 0.41 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 40 pF/ft | 72 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.171 μ H/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 60 Ohm |

Current

| Max. Recommended Current [A] |
|-------------------------------|
| 75 Amps per Conductor at 30°C |

Voltage

| Description | UL Voltage Rating | Voltage Rating [V] |
|------------------|-------------------|--------------------|
| CSA AWM I/II A/B | 2000 V RMS | 1000 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: | 811 lbs/1000ft |
| Max. Pull Tension: | 1220 lbs |
| Min Bend Radius/Minor Axis: | 10.6 in |

Standards

| | |
|-----------------------|--------------------------------------|
| NEC Articles: | Article 336 |
| NEC/(UL) Compliance: | TC-ER, RHW-2, WTTC |
| CEC/C(UL) Compliance: | CIC, TC |
| CSA AWM Compliance: | AWM I/II A/B |
| PMSHA Compliance: | P-07-KA070003 |
| Other Compliance: | 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 |
|---------------|-------|------------|----------|--------------|
| 29540 0101000 | Black | Reel | 1,000 ft | 612825138471 |
| 29540 0103500 | Black | Reel | 3,500 ft | 612825138488 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.351 Revision Date: 06-08-2020 |
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
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Как с нами связаться

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