Part Number: 29525C

VFD, 3C #6 Str BC XLPO Ins + #6 Symm. Gnd (3 of #12) Str BC, CTS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

Product Description

Belden Basics VFD, 3 Conductor 6AWG (7x14) Bare Copper XLPO Insulation M4 Color Code + 6AWG Symmetrical Segmented Ground (3 of 12AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B 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**
  - Ground Wire | 12 | 7x20 | BC - Bare Copper | 3
  - Conductor Count: 3

- **Insulation**
  - **Material** | **Nominal Wall Thickness**
  - XLPE - Cross Linked Polyethylene | 0.046 in

- **Color Chart**
  - **Number** | **Color**
  - 1 | Black and Numbered 1
  - 2 | Black and Numbered 2
  - 3 | Black and Numbered 3

- **Outer Shield Material**
  - **Type** | **Layer** | **Material** | **Coverage [%]**
  - Tape 1 | Spiral Copper | 100 %
  - Tape 2 | Spiral Copper | 100 %

- **Outer Jacket Material**
  - **Material** | **Nominal Diameter** | **Nominal Wall Thickness**
  - PVC - Polyvinyl Chloride | 0.724 in | 0.063 in

Electrical Characteristics

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

- **Current**
  - **Per NEC** | **Max. Recommended Current [A]**
  - 75 Amps per conductor @ 25°
<table>
<thead>
<tr>
<th>Description</th>
<th>UL Description</th>
<th>Voltage Rating [V]</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSA AWM III A/B</td>
<td>NEC Type TC</td>
<td>1000 V RMS (CSA AWM III A/B)</td>
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</tbody>
</table>

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

**Mechanical Characteristics**
- Bulk Cable Weight: 468 lbs/1000ft
- Max Recommended Pulling Tension: 915 lbs
- Min Bend Radius/Minor Axis: 7.3 in

**Standards**
- NEC Articles: 336 - ER
- NEC/(UL) Specification: TC-ER, XHHW-2 Singles
- CSA AWM Specification: 1000 V AWM I/II A/B
- PMSHA Specification: P-07-KA070003

**Applicable Environmental and Other Programs**
- 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 CE Mark: Yes
- EU RoHS Compliance Date (yyyy-mm-dd): 2007-08-17
- CA Prop 65 (CJ for Wire & Cable): Yes
- Mill 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 Vertical Tray Flame Test (70,000 BTU)
- UL voltage rating: 600 V RMS (NEC Type TC)

**Plenum/Non-Plenum**
- Plenum (Y/N): No

**Part Number**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>UPC</th>
<th>Length</th>
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<tbody>
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<td>29525C 0101000</td>
<td>Black</td>
<td>612825137733</td>
<td>1,000 ft</td>
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<tr>
<td>29525C 0105000</td>
<td>Black</td>
<td>612825137777</td>
<td>5,000 ft</td>
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**History**
- Update and Revision: Revision Number: 0.324 Revision Date: 09-10-2019
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