



Product: [29505](#)

VFD 300% Gnd, 3C+G #6 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/4-#12 TC Drains, Blk PVC Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

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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/4-12AWG Tinned Copper Drains, Black PVC Outer Jacket, 600/1000V TC-ER 90C Dry/Wet 1000V 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 |
|------------------------|---|

Construction Details

Conductor

| Element | Number of Element | AWG | Stranding | Material |
|--------------|-------------------|-----|-----------|--------------------|
| Conductor(s) | 3 | 6 | 7x19x27 | TC - Tinned Copper |
| Ground | 1 | 6 | 7x19x27 | TC - Tinned Copper |

Insulation

| Element | Material | Thickness | Color Code |
|--------------|--|-------------------|---------------------|
| Conductor(s) | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.062 in (1.6 mm) | Black and Numbered |
| Ground | PVC - Polyvinyl Chloride | 0.062 in (1.6 mm) | 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 | 0.095 in (2.4 mm) | 1.002 in | Yes |

| | |
|---------------------------|---------------------|
| Cable Diameter (Nominal): | 1.002 in (25.45 mm) |
|---------------------------|---------------------|

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) | 0.379 Ohm/1000ft (1.24 Ohm/km) | 46 pF/ft (150 pF/m) | 83 pF/ft (270 pF/m) | 37 Ohm | 55% | 75 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating |
|---|
| 1000 V (TC, WTTC, UL Flexible Motor Supply Cable, CSA AWM I/II A/B), 600 V (C(UL) CIC TC) |

Mechanical Characteristics

Temperature

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

90°C Dry, 90°C Wet -40°C To +90°C

Bend Radius

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 12.0 in (305 mm) | 12.0 in (305 mm) |

| | |
|--------------------|-----------------------------|
| Max. Pull Tension: | 1358 lbs (616.0 kg) |
| Bulk Cable Weight: | 793 lbs/1000ft (1180 kg/km) |

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 (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | P-07-KA070003-MSHA |

History

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| Update and Revision: | Revision Number: 0.424 Revision Date: 06-08-2021 |
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