



Product: <u>29540</u> ☑

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 WTTC

Request Sample

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 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; High voltage requirements |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|-------|-----------|--------------------|
| Conductor(s) | 3 | 6 AWG | 7x19x27 | TC - Tinned Copper |
| Ground | 1 | 6 AWG | 7x19x27 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|--------------|--|-------------------|---------------------|
| Conductor(s) | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.072 in (1.8 mm) | Black and Numbered |
| Ground | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.072 in (1.8 mm) | Green/Yellow Stripe |

Outer Shield

| Shield Type | Material | Coverage |
|-------------|-------------------------------|----------|
| Таре | Tri-Laminate (Alum+Poly+Alum) | 100% |
| Braid | Tinned Copper (TC) | 85% |

Outer Jacket

| | Material | Nom. Thickness | Nom. Diameter | Ripcord |
|---|--------------------------|-------------------|---------------------|---------|
| P | VC - Polyvinyl Chloride | 0.095 in (2.4 mm) | 1.049 in (26.64 mm) | Yes |
| 0 | verall Cable Diameter (N | Nominal): | 1.049 in (26.64 mm) | |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|--------------|-----------------------------------|----------------------------------|--|----------------------------------|---------------------------|-------------------------------|
| Conductor(s) | 0.379 Ohm/1000ft (1.24 Ohm/km) | 33 pF/ft (110 pF/m) | 60 pF/ft (200 pF/m) | 56 Ohm | 55% | 75 Amps per Conductor at 30°C |

Voltage

| UL V | oltage Rating |
|--|---|
| 2000 V (TC, C(UL) TC), 1000 V (WTTC, U | JL Flexible Motor Supply Cable, CSA AWM I/II A/B) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|--------------------|----------------|
| 90°C Dry, 90°C Wet | -40°C To +90°C |

Bend Radius

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 12.6 in (320 mm) | 12.6 in (320 mm) |

| Max. Pull Tension: | 1358 lbs (616.0 kg) | |
|--------------------|-----------------------------|--|
| Bulk Cable Weight: | 785 lbs/1000ft (1170 kg/km) | |

Standards and Compliance

| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial |
|----------------------------------|---|
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 UL Loading, 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

| Update and Revision: | Revision Number: 0.503 Revision Date: 02-03-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 29540 0101000 | Black | Reel | 1,000 ft | 612825138471 |
| 29540 0103500 | Black | Reel | 3,500 ft | 612825138488 |

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