



**Product:** [29507](#)

VFD 300% Gnd, 3C+G #2 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/4-#8 TC Drains, Blk PVC Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

[Request Sample](#)

**Product Description**

Belden 300% Ground Flexible VFD, 3 Conductor 2AWG (7x19x23) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-8AWG 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                 | 2   | 7x19x23   | TC - Tinned Copper |
| Ground       | 1                 | 2   | 7x19x23   | 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) | 1.324 in      | Yes     |

|                           |                     |
|---------------------------|---------------------|
| Cable Diameter (Nominal): | 1.324 in (33.63 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) | 0.152 Ohm/1000ft (0.499 Ohm/km) | 40 pF/ft (130 pF/m)           | 72 pF/ft (240 pF/m)                             | 46 Ohm                   | 55%                    | 130 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. |
|------------------|-------------------|
| 15.9 in (404 mm) | 15.9 in (404 mm)  |

|                    |                              |
|--------------------|------------------------------|
| Max. Pull Tension: | 3327 lbs (1509 kg)           |
| Bulk Cable Weight: | 1546 lbs/1000ft (2301 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

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.430 Revision Date: 06-08-2021 |
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