



**Product:** [29506T](#)

VFD 300% Gnd, 3C+G #4 Str TC, XLPE Ins+PVC Grd, OS+TC Brd w/4-#10 TC Drains, Blk LSZH Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

## Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 4AWG (7x19x25) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-10AWG Tinned Copper Drains, Black LSZH Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC SUN RES DIR BUR

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Variable Frequency Drives (VFD); AC Motor and Drive Systems; Human safety applications with flame or toxicity concerns (low smoke, zero halogen) |
|------------------------|--|

### Construction Details

#### Conductor

| Element      | Number of Element | AWG | Stranding | Material           |
|--------------|-------------------|-----|-----------|--------------------|
| Conductor(s) | 3                 | 4   | 7x19x25   | TC - Tinned Copper |
| Ground       | 1                 | 4   | 7x19x25   | TC - Tinned Copper |

#### Insulation

| Element      | Material                                     | Thickness | Color Code          |
|--------------|--|-----------|---------------------|
| Conductor(s) | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.062 in  | Black and Numbered  |
| Ground       | PVC - Polyvinyl Chloride                     | 0.061 in  | 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 |
|---|-----------|---------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.095 in  | 1.160 in      | Yes     |

|                           |          |
|---------------------------|----------|
| Cable Diameter (Nominal): | 1.160 in |
|---------------------------|----------|

### 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) | 0.16 Ohm/1000ft    | 40 pF/ft                      | 72 pF/ft  | 46 Ohm                   | 0.55%                  | 95 Amps per Conductor at 30°C |

#### Voltage

| UL Voltage Rating                                 |
|---|
| 1000 V (TC, WTTC, UL Flexible Motor Supply Cable) |

### Mechanical Characteristics

#### Temperature

| UL Rating          | Operating      |
|--------------------|----------------|
| 90°C Dry, 90°C Wet | -25°C To +90°C |

## Bend Radius

### Installation Min.

13.4 in

Max. Pull Tension: 2156 lbs

Bulk Cable Weight: 11150 lbs/1000ft

## Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial

Sustainability: CA Prop 65

Flammability / Fire Resistance: UL1685 FT4 Loading

NEC / UL Compliance: Article 336, TC-ER, WTTC, UL Flexible Motor Supply Cable

ICEA Compliance: S-95-658

APAC Compliance: China RoHS II (GB/T 26572-2011)

## History

Update and Revision: Revision Number: 0.146 Revision Date: 09-30-2020

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