



Product: [29500T](#)

VFD 300% Gnd, 3C+G #16 Str TC, XLPE Ins+PVC Grd, OS+TC Brd w/#16 TC Drain, Blk LSZH Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

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Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 16AWG (26x30) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/16AWG Tinned Copper Drain, Black LSZH Outer Jacket, 600V TC-ER-LS 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 | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 3 | 16 AWG | 26x30 | TC - Tinned Copper |
| Ground | 1 | 16 AWG | 26x30 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|--------------|--|-------------------|---------------------|
| Conductor(s) | XLPE - Cross-Linked Polyethylene (Thermoset) | 0.046 in (1.2 mm) | Black and Numbered |
| Ground | PVC - Polyvinyl Chloride | 0.046 in (1.2 mm) | Green/Yellow Stripe |

Outer Shield

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

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|---|-------------------|--------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.063 in (1.6 mm) | 0.534 in (13.6 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.534 in (13.6 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) | 3.914 Ohm/1000ft (12.84 Ohm/km) | 29 pF/ft (95 pF/m) | 53 pF/ft (170 pF/m) | 63 Ohm | 55% | 24 Amps per Conductor at 30°C |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 6.4 in (160 mm) | 6.4 in (160 mm) |

| | |
|--------------------|----------------------------|
| Max. Pull Tension: | 256 lbs (116 kg) |
| Bulk Cable Weight: | 169 lbs/1000ft (251 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, 1202, 383 Vertical Tray Flame Test (70,000 BTU) |
| NEC / UL Compliance: | Article 336, TC-ER-LS, WTTC, UL Flexible Motor Supply Cable |
| 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) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.394 Revision Date: 02-03-2025 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | UPC | Footnote |
|----------------|-------|------------|--------------|----------|
| 29500T 0101000 | Black | Reel | 612825136552 | C |
| 29500T 0106000 | Black | Reel | 612825136569 | C |

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