



**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)
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### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	3	16	26x30	TC - Tinned Copper
Ground	1	16	26x30	TC - Tinned Copper

#### Insulation

Element	Material	Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.046 in	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.046 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)	0.063 in	0.534 in	Yes

Cable Diameter (Nominal):	0.534 in
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### 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)	0.988 Ohm/1000ft	29 pF/ft	53 pF/ft	63 Ohm	0.55%	18 Amps per Conductor at 30°C (per NEC)

#### 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 -40°C To +90°C

#### Bend Radius

##### Installation Min.

6.4 in

Max. Pull Tension: 256 lbs

Bulk Cable Weight: 169 lbs/1000ft

#### Standards and Compliance

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

Sustainability: CA Prop 65

Flammability / Fire Resistance: UL1685 FT4 Loading, FT4, 1202, 383 Vertical Tray Flame Test (70,000 BTU)

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

ICEA Compliance: S-95-658

European Directive Compliance: EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)

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

#### History

Update and Revision: Revision Number: 0.282 Revision Date: 09-30-2020

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