



**Product:** [29505](#)

VFD 300% Gnd, 3C+G #6 Str TC, XLPE Ins+PVC Gnd, OS+TC Brd w/4-#12 TC Drains, Blk PVC 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 6AWG (7x19x27) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-12AWG Tinned Copper Drains, Black PVC Outer Jacket, 600V 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
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### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	3	6	7x19x27	TC - Tinned Copper
Ground	1	6	7x19x27	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	0.062 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
PVC - Polyvinyl Chloride	0.095 in	1.002 in	Yes

Cable Diameter (Nominal):	1.002 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)	0.079 Ohm/1000ft	46 pF/ft	83 pF/ft	37 Ohm	0.55%	75 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.
8.25 in	12 in

Max. Pull Tension:	1358 lbs
Bulk Cable Weight:	793 lbs/1000ft

#### 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, WTTTC, 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, EU Directive 2011/65/EU (ROHS II), 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: 0.392 Revision Date: 09-30-2020
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