



**Product:** [29543](#)

VFD 100% Gnd, 3C #1 Str TC XLPE Ins + #1 Symm. Seg. Gnd (3 of #6) Str BC, CTS, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable WTTC

[Request Sample](#)

## Product Description

Belden 100% Ground Flexible VFD, 3 Conductor 1AWG (7x19x22) Tinned Copper XLPE Insulation M4 Color Code + 1AWG Symmetrical Segmented Ground (3 of 6AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 2000V TC-ER 90C Dry/Wet 2000V Flexible Motor Supply Cable WTTC 1000V CSA AWM I/II A/B 2000V RW90 TC SUN RES DIR BUR Oil Resistant

## Technical Specifications

### Product Overview

Suitable Applications:	Variable Frequency Drives (VFD); AC Motor and Drive Systems; High voltage requirements
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### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material	Notes
Conductor(s)	3	1	7x19x22	TC - Tinned Copper	
Ground	3	6	7x19x27	BC - Bare Copper	Segmented Grounds

#### Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.092	Black and Numbered
Ground	No Insulation		

#### Outer Shield Material

Shield Type	Material	Coverage
Helical Tape + Helical Tape	Bare Copper (BC) + Bare Copper (BC)	100% + 100%

#### Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in	1.346 in	Yes

Cable Diameter (Nominal):	1.346 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)	0.050 Ohm/1000ft	50 pF/ft	90 pF/ft	36 Ohm	0.55%	145 Amps per Conductor at 30°C

#### Voltage

UL Voltage Rating
2000 V (TC, C(UL) TC), 1000 V (WTTC, UL Flexible Motor Supply Cable, CSA AWM I/II A/B)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating

90°C Dry, 90°C Wet -40°C To +90°C

#### Bend Radius

Stationary Min.	Installation Min.
13.6 in	16.2 in

Max. Pull Tension:	4138 lbs
Bulk Cable Weight:	1501 lbs/1000ft

#### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 UL Loading, RW90, 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:	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)

#### History

Update and Revision:	Revision Number: 0.377 Revision Date: 09-30-2020
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