



# **Product:** 29503

VFD 300% Gnd, 3C+IG #10 Str TC, XLPO Ins+PVC Gnd, OS+TC Brd, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable

😭 Request Sample

## **Product Description**

Belden 300% Ground Flexible VFD, 3 Conductor 10AWG (105x30) Tinned Copper, XLPO Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V CSA AWM I/II A/B 600V CIC TC SUN RES DIR BUR Oil Resistant

### **Technical Specifications**

### **Product Overview**

Suitable Applications:

AC Motor drives, VFD, Variable Frequency drives

### **Physical Characteristics (Overall)**

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
	10	105x30	TC - Tinned Copper	3
Ground Wire	10	105x30	TC - Tinned Copper	•
Conductor Co	ount:		3	

#### Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.045 in
XLP - Cross Linked Polyolefin	0.045 in

#### **Outer Shield Material**

Туре	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Таре	1	Aluminum/Polyester	Duofoil®	100 %	TC - Tinned Copper	10	105x30 mm
Braid	2	TC - Tinned Copper		85 %			

n. Capacitance Conductor to Other Conductor to Shield

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.69 in	0.073 in

### **Electrical Characteristics**

Conductor DCR	
Nominal Conductor DCR	
0.988 Ohm/1000ft	
Capacitance	
Nom. Capacitance Conductor to Conductor	Nom. Ca
29 pF/ft	53 pF/ft

#### Inductance

Nominal Inductance

#### Impedance

Nominal Characteristic Impedance

63 Ohm

#### Current

Max. Recommended Current [A]
40 Amps per conductor @ 30°C (per NEC)

#### Voltage

UL Voltage Rating	Voltage Rating [V]
1000 V RMS (Flexible Motor Supply Cable)	1000 V RMS (CSA AWM I/II A/B)
600 V RMS (Type TC)	

## **Temperature Range**

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temp Range:	-40C To +90C Wet/Dry
Wet Temp Range:	-40°C To +90 °C
Dry Temp Range:	-40°C To +90 °C

## **Mechanical Characteristics**

Bulk Cable Weight:	350 lbs/1000ft
Max Recommended Pulling Tension:	592 lbs
Min Bend Radius/Minor Axis:	5.5 in

### **Standards**

NEC Articles:	336 - ER
NEC/(UL) Specification:	TC-ER, RHW-2, WTTC
CEC/C(UL) Specification:	600V Type CIC TC
CSA AWM Specification:	1000 V AWM I/II A/B
PMSHA Specification:	P-07-KA070003
Other Specification:	1000V UL Flexible Motor Supply

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-13
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202, 383 Vertical Tray Flame Test (70,000 BTU)
UL voltage rating:	1000 V RMS (Flexible Motor Supply Cable)

## Part Number

ria	nts
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Item #	Color	UPC	Length	Footnote
29503 010100	Black	612825136880	100 ft	

29503 0101000	Black	612825136897	1,000 ft	CZ
29503 010250	Black	612825136910	250 ft	CZ
29503 010500	Black	612825136941	500 ft	CZ
29503 0105000	Black	612825136958	5,000 ft	СZ
Footnote:			C - CF	RATE REEL
Footnote:		Z - FIN	IAL PUT-U	

#### History

Update and Revision:

Revision Number: 0.322 Revision Date: 09-10-2019

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