



**Part Number: 29530F**

VFD 100% Gnd, 3C+3G(Segmented) #2/0+3 of #4 Str TC+BC, XLPO Ins M4, CTS, Blk TPE Jkt, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V WTTC

 [Request Sample](#)

**Product Description**

Belden 100% Ground Flexible VFD, 3 Conductor+3G(Segmented), 2/0AWG+3 of 4AWG GND (1323(7x7x27)x30) Tinned Copper+Bare Copper, XLPO Insulation M4 Color Code, Overall Dual Copper Tapes Helically Applied Shield, Black TPE Outer Jacket, 600V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable 1000V WTTC 600V CIC TC SUN RES OIL RES II

**Technical Specifications**

**Product Overview**

Suitable Applications:	AC Motor drives, VFD, Variable Frequency drives
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**Physical Characteristics (Overall)**

**Conductor**

Element	AWG	Stranding	Material	No. of Conductors
	2/0	7x7x27x30	TC - Tinned Copper	3
Ground Wire	4	7x60x30	TC - Tinned Copper	3

Conductor Count:	3
Conductor Size:	2/0 AWG

**Insulation**

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.057 in

**Color Chart**

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3

**Outer Shield Material**

Type	Layer	Material	Coverage [%]
Tape	1	Spiral Copper	100 %
Tape	2	Spiral Copper	100 %

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	1.503 in	0.083 in

**Electrical Characteristics**

**Conductor DCR**

<b>Nominal Conductor DCR</b>
.079 Ohm/1000ft

**Capacitance**

<b>Nom. Capacitance Conductor to Conductor</b>	<b>Nom. Capacitance Conductor to Other Conductor to Shield</b>
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46 pF/ft	83 pF/ft
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## Inductance

Nominal Inductance
0.141 $\mu$ H/ft

## Current

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

## Voltage

UL Voltage Rating
1000 V RMS (Flexible Motor Supply Cable)
600 V RMS (NEC Type TC)

## Temperature Range

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

## Mechanical Characteristics

Oil Resistance:	Yes - Oil Res II
Bulk Cable Weight:	2148 lbs/1000ft
Max Recommended Pulling Tension:	4200 lbs
Min Bend Radius/Minor Axis:	7.5 in

## Standards

NEC Articles:	336 - ER
NEC/(UL) Specification:	TC-ER, WTTC, XHHW-2
CEC/C(UL) Specification:	600V Type CIC TC
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

## Suitability

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

## Flammability, LSOH, 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

### Variants

Item #	Color
29530F 0102000	Black

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