



Product: 29504

VFD 300% Gnd, 3C+IG #8 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 8AWG (7x19x29) 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	Mat	terial	No. of Conductors
		8	7x19x29	TC - Tinn	ed Copper	3
	Ground Wire	8	7x19x29	TC - Tinn	ed Copper	
İ	Conductor Co	ount:			3	

Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.06 in
XLP - Cross Linked Polyolefin	0.06 in

Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

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	14 (4x)	41x30 mm
Braid	2	TC - Tinned Copper		85 %			

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.923 in	0.093 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 0.64 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor Nom. Capacitance Conductor to Other Conductor to Shield

30 pF/ft

54 pF/ft

Inductance

Nominal Inductance 0.181 µH/ft

Impedance

Nominal Characteristic Impedance 62 Ohm

Current

Max. Recommended Current [A]

55 Amps per conductor @ 30°C (per NEC)

Voltage

Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	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
Wet Temp Range:	-40°C To +90 °C
Dry Temp Range:	-40°C To +90 °C

Mechanical Characteristics

Bulk Cable Weight:	604 lbs/1000ft
Max Recommended Pulling Tension:	768 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
CSA AWM Specification:	1000 V AWM I/II A/B
PMSHA Specification:	P-07-KA070003
Other Specification: 1000V UL Flexible Motor Supply Cable	

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:	ammability: 1202, 383 Vertical Fleible Motor Supply Cable	

Part Number

Item #	Color	UPC	Length	Footnote
29504 0101000	Black	612825137016	1,000 ft	CZ
29504 010250	Black	612825137030	250 ft	CZ
29504 010500	Black	612825137078	500 ft	CZ
29504 0105000	Black	612825137085	5,000 ft	СZ
Footnote: C - CRATE		ATE REEL		
Footnote:	ootnote: Z - FINAL PUT-U			

History

Update and Revision:

Revision Number: 0.328 Revision Date: 09-10-2019

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