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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Part Number: 29503F

1000V UL Flexible Motor VFD, (3) 10 AWG (7x37x34) TC+Grd, XLP/TPE, Foil+TC Braid Shld, TC-ER

 [Request Sample](#)

Product Description

Three 10 AWG stranded (7x37x34) tinned copper circuit conductors plus ground wire, cross-linked polyolefin insulation, overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), TPE jacket.

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
	12	7x24x34	TC - Tinned Copper	3
Ground Wire	12	7x24x34	TC - Tinned Copper	

Conductor Count:	3
Conductor Size:	12 AWG

Insulation

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

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	1	Aluminum/Polyester	Duofoil®	100 %	TC - Tinned Copper	12
Braid	2	TC - Tinned Copper		85 %		

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.661 in	0.073 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
26 pF/ft	47 pF/ft
Shielding:	Foil + Braid(s)

Inductance

Nominal Inductance

0.197 μ H/ft

Impedance

Nominal Characteristic Impedance

71 Ohm

Current

Max. Recommended Current [A]

30 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

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

Mechanical Characteristics

Bulk Cable Weight: 250 lbs/1000ft

Max Recommended Pulling Tension: 336 lbs

Min Bend Radius (Continuous Flexing): 5 in

Min Bend Radius/Minor Axis: 3.3 in

Standards

NEC Articles: 336 - ER

NEC/(UL) Specification: N/A

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
29503F 0101000	Black
29503F 0105000	Black

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