



Part Number: 29504

1000V UL Flex Motor VFD, (3) 8 AWG (7x19x29) TC+Grd, XLP/PVC, Foil+TC Braid Shld, TC-ER

# **Product Description**

Three 8 AWG stranded (7x19x29) tinned copper circuit conductors plus ground wire, cross-linked polyolefin insulation, overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), PVC jacket.

# **Product Specifications**

# **Technical Specifications**

s	uitable Applications:	AC Motor drives, VFD, Variable Frequency drives
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### **Construction and Dimensions**

#### Conductor:

Element AWG Stranding M		Material	No. of Conductors	
	8	7×19×29	TC - Tinned Copper	3
Ground Wire	8	7×19×29	TC - Tinned Copper	

Total Number of Conductors: 3
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#### Insulation:

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

#### Color Chart 1:

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

# Stranding:

Lay Length	
Y mm	

#### Outershield 1:

Турє	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Duofoil®	M O O %	TC - Tinned Copper	14 (4x)	41x30 mm
Braid	2	TC - Tinned Copper		85 %			

### Outerjacket 1:

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 Smeta	
30 pF/ft	54 pF/ft	
Min Insulation Resistance:	300 Megaohms/1000 ft. MOhm*1000ft	

# Impedance:

Nominal Characte	stic Impedance	
62 Ohm		

#### **Current:**

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

#### Inductance:

#### Nominal Inductance

0.181 µH/ft

### Voltage:

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

### Use

Suitability - Oil Resistance:	Yes	
Suitability - Burial:	Yes	
Suitability - Indoor:	Yes	
Suitability - Outdoor:	Yes	
Suitability - Sunlight Resistance:	Yes	
Max Recommended Pulling Tension:	768 lbs	

# Safety

CSA Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1685 UL Loading

# Temperature Range

Dry Temp Range:	-40°C To +90 °C
Wet Temp Range:	-40°C To +90 °C

### **Mechanical Characteristics**

Min Bend Radius/Minor Axis:	7.5 in
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# Part Number

### **Standards**

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)	
CEC/C(UL) Specification:	CEC/C(UL) Specification	
CSA AWM Specification:	CSA Specification	
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)	
NEC Articles:	NEC Articles	
NEC/(UL) Specification:	NEC/(UL) Specification	

Other Specification:	Other Specification	
PMSHA Specification:	PMSHA Specification	
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)	
EU CE Mark:	EU CE Mark	

### **History**

### **Product Variants**

Part Number	Color	Put-Up Type	Length
29504 0101000	BLACK	Reel	1000 ft
29504 010250	BLACK	Reel	250 ft
29504 0103000	BLACK	Reel	3000 ft
29504 0105000	BLACK	Reel	5000 ft
29504 010500	BLACK	Reel	500 ft

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