



**Part Number:** 29512

1000V UL Flex Motor VFD, (1 pr) 16 AWG (26x30) TC, (3) 12 AWG (65x30) TC+Grd, XLPE/PVC, Foil+TC Braid Shld, TC-ER

## Product Description

One 16 AWG signal pair stranded (26x30) tinned copper conductor, cross-linked polyethylene insulation, Beldfoil® shield (100% coverage), three 12 AWG stranded (65x30) tinned copper conductors plus ground wire, cross-linked polyethylene insulation, Duofoil® tape (100% coverage) plus tinned copper braid shield (85% coverage), PVC jacket.

## Product Specifications

## Technical Specifications

<b>Suitable Applications:</b>	AC Motor drives, VFD, Variable Frequency drives
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## Construction and Dimensions

### Conductor:

Element	AWG	Stranding	Material	No. of Conductors	No. of Pairs
XLPE	16	26x30	TC - Tinned Copper	3	1
	12	65x30	TC - Tinned Copper		
Ground Wire	12	65x30	TC - Tinned Copper		

<b>Total Number of Conductors:</b>	5
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### Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.03 in
PVC - Polyvinyl Chloride	0.045 in
XLPE - Cross Linked Polyethylene	

### Color Chart 1:

Number	Color
1	Black and White
1	Black #1
2	Black #2
3	Black #3
4	Green/Yellow

#### Innershield:

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	18	19x30 mm
	TC - Tinned Copper				

#### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %	TC - Tinned Copper	12	65x30 mm
Braid	2	TC - Tinned Copper		85 %			

#### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.895 in	0.08 in	Yes

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR	Nominal Inner Shield DCR
4 Ohm/1000ft	4.99 Ohm/1000ft
1.6 Ohm/1000ft	

#### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
34 pF/ft	47 pF/ft
26 pF/ft	

#### Inductance:

Nominal Inductance
0.197 µH/ft

#### Voltage:

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

## Use

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	527 lbs

## Safety

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

## Temperature Range

Operating Temp Range:	-40°C To +90°C
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## Mechanical Characteristics

Min Bend Radius/Minor Axis:	9 in
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## Part Number

Plenum (Y/N):	No
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## 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/(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
29512 0101000	BLACK	Reel	1000 ft
29512 010100	BLACK	Reel	100 ft
29512 0104000	BLACK	Reel	4000 ft
29512 010500	BLACK	Reel	500 ft

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