



**Part Number:** 29506

1000V UL Flex Motor VFD, (3) 4 AWG (7x19x25) TC+Grd, XLP/PVC, Foil+TC Braid Shld, TC-ER

## Product Description

Three 4 AWG stranded (7x19x25) 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

<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
	4	7x19x25	TC - Tinned Copper	3
Ground Wire	4	7x19x25	TC - Tinned Copper	

<b>Total Number of Conductors:</b>	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
2	Black and Numbered 1
3	Black and Numbered 2
4	Black and Numbered 3
1	Green/Yellow

Stranding:

Lay Length
Y mm

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Duofoil®	100 %	TC - Tinned Copper	10 (4x)	105x30 mm
Braid	2	TC - Tinned Copper		85 %			

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.163 in	0.093 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
0.26 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
37 pF/ft	67 pF/ft
Min Insulation Resistance:	
300 Megaohms/1000 ft. MOhm*1000ft	

Impedance:

Nominal Characteristic Impedance
50 Ohm

Current:

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

Inductance:

Nominal Inductance
0.161 $\mu\text{H}/\text{ft}$

### 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:	1940 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:	9.3 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
29506 0101000	BLACK	Reel	1000 ft
29506 0102500	BLACK	Reel	2500 ft
29506 010250	BLACK	Reel	250 ft
29506 0103000	BLACK	Reel	3000 ft

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