



**Part Number:** 29501

1000V UL Flex Motor VFD, (3) 14 AWG (41x30) TC+Grd,  
XLP/PVC, Foil+TC Braid Shld, TC-ER

## Product Description

Three 14 AWG stranded (41x30) 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
	14	41x30	TC - Tinned Copper	3
Ground Wire	14	41x30	TC - Tinned Copper	

<b>Total Number of Conductors:</b>	3
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### Insulation:

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.045 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
3	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	14	41x30 mm
Braid	2	TC - Tinned Copper		85 %			

#### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.604 in	0.073 in

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR
2.52 Ohm/1000ft

#### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
23 pF/ft	42 pF/ft

<b>Min Insulation Resistance:</b>	300 Megaohms/1000 ft. MOhm*1000ft
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#### Impedance:

Nominal Characteristic Impedance
80 Ohm

#### Current:

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

#### Inductance:

Nominal Inductance
0.213 $\mu$ H/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:	212 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:	4.8 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
29501 0101000	BLACK	Reel	1000 ft
29501 010100	BLACK	Reel	100 ft
29501 010250	BLACK	Reel	250 ft
29501 0105000	BLACK	Reel	5000 ft
29501 010500	BLACK	Reel	500 ft

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