



**Part Number:** 29507

1000V UL Flex Motor VFD, (3) 2 AWG (7x19x23) TC+Grd, XLP/PVC, Foil+TC Braid Shld, TC-ER

## Product Description

Three 2 AWG stranded (7x19x23) 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
	2	7x19x23	TC - Tinned Copper	3
Ground Wire	2	7x19x23	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
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:

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	8 (4x)	133x29 mm
Braid	2	TC - Tinned Copper		85 %			

### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.31 in	0.093 in

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR
0.16 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
40 pF/ft	72 pF/ft

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

Nominal Characteristic Impedance
46 Ohm

### Current:

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

### Inductance:

Nominal Inductance
0.153 $\mu$ 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:	3088 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:	10.75 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)

<b>NEC Articles:</b>	NEC Articles
<b>NEC/(UL) Specification:</b>	NEC/(UL) Specification
<b>EU Directive Compliance:</b>	EU Directive 2003/11/EC (BFR)
<b>EU CE Mark:</b>	EU CE Mark

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
29507 0101000	BLACK	Reel	1000 ft
29507 0102000	BLACK	Reel	2000 ft
29507 010250	BLACK	Reel	250 ft
29507 010500	BLACK	Reel	500 ft
29507 010S3000	BLACK	Reel	3000 ft

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