



**Part Number:** 29535

2000V, 1000V C(UL) VFD, (3) 500 MCM, (37x.1162)  
BC+Grd, XLPE/PVC, Foil Shld, TC-ER

## Product Description

Three 500 MCM stranded (37x.1162) bare copper circuit conductors plus three symmetrical ground wires, cross-linked polyethylene insulation, two spiral copper tape shields (100% 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
	500 MCM	37x.1162	BC - Bare Copper	3
Ground Wire	6	7X14	BC - Bare Copper	

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

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.105 in

### Stranding:

Lay Length
Y mm

### Outershield 1:

Type	Layer	Material	Coverage [%]
Tape	1	Spiral Copper	100 %
Tape	2	Spiral Copper	100 %

#### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	2.41 in

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR
0.022 Ohm/1000ft

#### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
54 pF/ft	97 pF/ft

#### Impedance:

Nominal Characteristic Impedance
44 Ohm

#### Current:

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

#### Inductance:

Nominal Inductance
0.136 $\mu$ H/ft

#### Voltage:

UL Voltage Rating
2000 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:	12000 lbs
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## Safety

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

## Temperature Range

UL Temp Rating:	90°C Wet/Dry
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## Mechanical Characteristics

Min Bend Radius/Minor Axis:	43.4 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)
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
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
29535 0101000	BLACK	Reel	1000 ft
29535 0101300	BLACK	Reel	1300 ft

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