

**Part Number:** 29528C

600V VFD, (3) 1 AWG (19x14) BC+Grd, XLPE/PVC, Foil Shld, TC-ER



## Product Description

Three 1 AWG stranded (19x14) 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
	1	19x14	BC - Bare Copper	3
Ground Wire	10	7x18	BC - Bare Copper	

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

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.057 in

### Stranding:

Lay Length
Y mm

### Outersheild 1:

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

### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	1.121 in

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR
0.13 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
44 pF/ft	79 pF/ft

### Current:

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

### Inductance:

Nominal Inductance
0.146 $\mu$ H/ft

### Voltage:

Description	UL Voltage Rating	Voltage Rating [V]
CSA AWM I/II A/B	600 V RMS (NEC Type TC)	1000 V RMS

## Use

Suitability - Oil Resistance:	Yes
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	2650 lbs

## Safety

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

## Temperature Range

Operating Temp Range:	-40°C To +90°C
UL Temp Rating:	90°C Wet/Dry

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	11.2 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
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
29528C 0101000	BLACK	Reel	1000 ft
29528C 0103000	BLACK	Reel	3000 ft

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