



**Product:** [29036](#) 

ACIC 600V, 8+G C #18 Str BC, XLPE Ins, PVC Jkt, AIA Armor, PVC Jkt, 90C Dry/Wet CSA HL SUN RES -40C

## Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 8+G Conductor 18AWG (7x26) Bare Copper, XLPE Insulation, PVC Inner Jacket, Aluminum Interlock Armor, Blue PVC Outer Jacket, 90C Dry/Wet CSA HL SUN RES -40C

## Technical Specifications

### Product Overview

Suitable Applications:	Power and Control Applications up to 600V
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	8	18 AWG	7x26	BC - Bare Copper
Ground Wire	1	16 AWG	7x26	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.106 in (2.69 mm)	White and Numbered, Black and Numbered, [Delete]
Ground Wire	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.106 in (2.69 mm)	Green

#### Outer Shield

<b>Material</b>
No Shield

#### Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.482 in (12.2 mm)

#### Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in	0.707 in

Armor Table Notes:	Separator -Corrugated Mylar Tape
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#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.811 in	Yes

Overall Cable Diameter (Nominal):	0.811 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	6.8 Ohm/1000ft	9.8 Amps per Conductor at 30°C
Ground Wire	6.8 Ohm/1000ft (22 Ohm/km)	8 Amps per Conductor at 25°C

#### Voltage

Voltage Rating
600 V

## Mechanical Characteristics

### Temperature

Operating
-40°C To +90°C

### Bend Radius

Stationary Min.	Installation Min.
9.73 in (247 mm)	9.73 in

Max. Pull Tension:	415 lbs (188 kg)
Bulk Cable Weight:	269 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
CEC / C(UL) Compliance:	HL, ACIC
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.218 Revision Date: 09-07-2025
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## Part Numbers

### Variants

Item #	Putup Type
29036 J225000	Reel

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