



Product: [29018](#)

ACIC 600V, 4+G C #16 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, 4+G Conductor 16AWG (7x24) Bare Copper, XLPE Insulation, PVC Inner Jacket, Aluminum Interlock Armor, 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)	4	16 AWG	7x24	BC - Bare Copper
Ground Wire	1	16 AWG	7x24	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)	0.118 in (3.00 mm)	White and Numbered, Black and Numbered
Ground Wire	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.118 in (3.00 mm)	Green

Outer Shield

Material
No Shield

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.417 in (10.6 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.642 in (16.3 mm)

Table Notes:	Seprator -Corrugated Mylar Tape
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Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.746 in

Overall Cable Diameter (Nominal):	0.746 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	4.2 Ohm/1000ft	14.4 Amps per Conductor at 30°C
Ground Wire	4.2 Ohm/1000ft (14 Ohm/km)	10 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.
8.95 in (227 mm)	8.95 in

Max. Pull Tension:	379 lbs (172 kg)
Bulk Cable Weight:	238 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: 0.371 Revision Date: 10-19-2023
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