



Product: [29009](#)

ACIC 600V, 40+G C #16 Str BC, XLPE Ins, PVC Jkt, AIA Armor, Blu PVC Jkt, 90C Dry/Wet CSA HL SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 40+G Conductor 16AWG (7x24) 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	Number of Element	Size	Stranding	Material
Conductor(s)	40	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	0.083 in (2.1 mm)	1.069 in (27.15 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.034 in (0.86 mm)	1.329 in (33.76 mm)

Table Notes:	Separator -Corrugated Mylar Tape
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Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	1.433 in
		1.41 in

Overall Cable Diameter (Nominal):	1.410 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	4.2 Ohm/1000ft	10.8 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.
16.91 in (429.5 mm)	16.91 in

Max. Pull Tension:	1664 lbs (754.8 kg)
Bulk Cable Weight:	1016 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	FT4
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: 0.210 Revision Date: 07-15-2022
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