



Product: [29032](#)

ACIC 600V, 4+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, 4+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
------------------------	---

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	18 AWG	7x26	BC - Bare Copper
Ground Wire	1	18 AWG	7x26	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.03 in (0.76 mm)	0.106 in (2.69 mm)	White and Numbered 1, Black and Numbered 2, Black and Numbered 3, Black and Numbered 4
Ground Wire	XLP, XLPO, XLPE (Thermoset)	0.03 in (0.76 mm)	0.106 in (2.69 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)	0.385 in (9.78 mm)	Yes	Black

Table Notes:	Separator - Corrugated Mylar Tape
--------------	-----------------------------------

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.610 in (15.5 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.714 in	Yes

Overall Cable Diameter (Nominal):	0.714 in
-----------------------------------	----------

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	6.9 Ohm/1000ft	11.2 Amps per Conductor at 30°C
Ground Wire	6.9 Ohm/1000ft (23 Ohm/km)	14 Amps per Conductor at 30°C

Voltage

Voltage Rating
600 V (CSA TC)

Mechanical Characteristics

Temperature

Operating
-40°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
8.56 in (217 mm)	8.56 in

Max. Pull Tension:	312 lbs (142 kg)
Bulk Cable Weight:	206 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
CEC / C(UL) Compliance:	CSA 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: 0.214 Revision Date: 02-03-2025
----------------------	--

Part Numbers

Variants

Item #	Putup Type
29032 J225000	Reel

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.