



**Product:** [29008](#)

ACIC 600V, 30+G C #16 Str BC, XLPE Ins, PVC Jkt, AIA Armor, PVC Jkt, 90C Dry/Wet SUN RES -40C

### Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 30+G Conductor 16AWG (7x24) Bare Copper, XLPE Insulation, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, 90C Dry/Wet 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) | 30              | 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) | 0.961 in (24.4 mm) | Yes     | Black |

##### Armor

| Armor Type & Material          | Armor Thickness    | Diameter Over Armor |
|--------------------------------|--------------------|---------------------|
| AIA - Aluminum Interlock Armor | 0.034 in (0.86 mm) | 1.221 in (31.01 mm) |

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

##### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter |
|--------------------------|-------------------|---------------|
| PVC - Polyvinyl Chloride | 0.052 in (1.3 mm) | 1.325 in      |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 1.325 in |
|-----------------------------------|----------|

#### 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. |
|------------------|-------------------|
| 15.9 in (404 mm) | 15.9 in           |

|                    |                     |
|--------------------|---------------------|
| Max. Pull Tension: | 1307 lbs (592.8 kg) |
| Bulk Cable Weight: | 846 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: 0.315 Revision Date: 12-22-2023 |
|----------------------|--------------------------------------------------|

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