




**Product:** [23524](#) 

ACIC 300V, 12 Pr #18 Str TC, PVC Ins E1, IS/OS, PVC Jkt, AIA Armor, Blk PVC Jkt, 105C Dry 75C Wet CSA HLABCD SUN RES -40C

## Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 12 Pair 18AWG (7x26) Tinned Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, Black PVC Outer Jacket, 105C Dry 75C Wet CSA HLABCD SUN RES -40C

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| Element      | AWG | Stranding | Material           | No. of Pairs |
|--------------|-----|-----------|--------------------|--------------|
| Conductor(s) | 18  | 7x26      | TC - Tinned Copper | 12           |

|                  |    |
|------------------|----|
| Conductor Count: | 24 |
|------------------|----|

#### Insulation

| Material                 | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.025 in               |

#### Color Chart

| Number | Color                         |
|--------|-------------------------------|
| 1      | Black & White and Numbered 1  |
| 2      | Black & White and Numbered 2  |
| 3      | Black & White and Numbered 3  |
| 4      | Black & White and Numbered 4  |
| 5      | Black & White and Numbered 5  |
| 6      | Black & White and Numbered 6  |
| 7      | Black & White and Numbered 7  |
| 8      | Black & White and Numbered 8  |
| 9      | Black & White and Numbered 9  |
| 10     | Black & White and Numbered 10 |
| 11     | Black & White and Numbered 11 |
| 12     | Black & White and Numbered 12 |

#### Inner Shield

| Type | Material                | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
|------|-------------------------|---------------------|--------------|--------------------|---------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%         | TC - Tinned Copper | 20            |

#### Inner Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.915 in         |

#### Outer Shield

| Type | Material                | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
|------|-------------------------|---------------------|--------------|--------------------|---------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%         | TC - Tinned Copper | 18            |

#### Outer Jacket

| Material                 | Nominal Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 1.28 in          | Yes     |

Construction and Dimensions

Armor

| Type of Armor | Material | Diameter over Armoring |
|---------------|----------|------------------------|
| Interlocked   | Aluminum | 1.175 in               |

Electrical Characteristics

Conductor DCR

| Individual Pair Nominal Shield DCR | Nominal Conductor DCR | Nominal Outer Shield DCR |
|------------------------------------|-----------------------|--------------------------|
| 10 Ohm/1000ft                      | 6.8 Ohm/1000ft        | 6.5 Ohm/1000ft           |

Voltage

| Description | Voltage Rating [V] |
|-------------|--------------------|
| CEC ACIC    | 300 V              |

Temperature Range

|                          |                  |
|--------------------------|------------------|
| Installation Temp Range: | -25°C To +105    |
| Non-UL Temp Rating:      | 105°C            |
| Wet Temp Range:          | -40°C To +75 °C  |
| Dry Temp Range:          | -40°C To +105 °C |

Mechanical Characteristics

|                              |                |
|------------------------------|----------------|
| Bulk Cable Weight:           | 725 lbs/1000ft |
| Max. Pull Tension:           | 684 lbs        |
| Min. Bend Radius/Minor Axis: | 15.4 in        |

Standards

|                       |   |
|-----------------------|---|
| CEC/C(UL) Compliance: | ACIC  |
| CSA AWM Compliance:   | C22.2#239, Type ACIC, C22.2#174, HLABCD, C22.2#0.3, Clause 4.31 Low Acid Test |

Applicable Environmental and Other Programs

|  |                               |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                                  | Yes                           |
| MII Order #39 (China RoHS):                  | Yes                           |

Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Indoor:              | Yes |
| Suitability - Outdoor:             | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, Toxicity Testing

|                     |     |
|---------------------|-----|
| C(UL) Flammability: | FT4 |
|---------------------|-----|

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item #        | Put-Up Type | UPC          |
|---------------|-------------|--------------|
| 23524 0602500 | Reel        | 612825322993 |
| 23524 0605000 | Reel        | 612825323013 |
| 23524 0605000 | Reel        |              |
| 23524 0105000 | Reel        |              |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.224 Revision Date: 12-15-2021 |
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