



**Product:** [23505](#)

ACIC 300V, 1 Tri #18 Str TC, PVC Ins E1, OS, PVC Jkt, AIA Armor, Blk PVC Jkt, 105C Dry 75C Wet CSA HLBCD SUN RES -40C

## Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 1 Triad 18AWG (7x26) Tinned Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, Black PVC Outer Jacket, 105C Dry 75C Wet CSA HLBCD SUN RES -40C

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Triads |
|-----|-----------|--------------------|---------------|
| 18  | 7x26      | TC - Tinned Copper | 1             |

|                  |   |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

#### Insulation

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

#### Color Chart 2

| Number | Color               |
|--------|---------------------|
| 1      | Black & White & Red |

#### Inner Jacket Material

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.303 in         |

#### Outer Shield Material

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

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 0.587 in         | 0.052 in               | Yes     |

### Construction and Dimensions

#### Armor

| Type of Armor | Material | Diameter over Armoring |
|---------------|----------|------------------------|
| Interlocked   | Aluminum | 0.483 in               |

### Electrical Characteristics

#### Conductor DCR

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

#### Voltage

| Description | Voltage Rating [V] |
|-------------|--------------------|
|-------------|--------------------|

|          |       |
|----------|-------|
| CSA 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:          | 175 lbs/1000ft |
| Max. Pull Tension:          | 80 lbs         |
| Min Bend Radius/Minor Axis: | 7.3 in         |

## Standards

|                     |   |
|---------------------|---|
| CSA AWM Compliance: | C22.2#239, Type ACIC, C22.2#174, HLBCD, 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 II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2006-01-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

## Suitability

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

## Flammability, LSOH, Toxicity Testing

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

## Plenum/Non-Plenum

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

## Part Number

### Variants

| Item #         | Putup Type | UPC          |
|----------------|------------|--------------|
| 23505 0105000  | Reel       | 612825322276 |
| 23505 06010000 | Reel       | 612825322290 |
| 23505 0602500  | Reel       | 612825322320 |
| 23505 0605000  | Reel       | 612825322337 |
| 23505 0602500  | Reel       |              |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.137 Revision Date: 02-16-2021 |
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