



Product: [23539D](#)

ACIC 300V, 16 Pr #16 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 16 Pair 16AWG (7x24) Tinned Copper, XLPE Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Technical Specifications

Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...),low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 16              | 16 AWG | 7x24      | TC - Tinned Copper |

Insulation

| Element | Material                    | Nom. Thickness     | Nom. Insulation Diameter | Color Code                   |
|---------|-----------------------------|--------------------|--------------------------|------------------------------|
| Pair(s) | XLP, XLPO, XLPE (Thermoset) | 0.025 in (0.64 mm) | 0.108 in mm              | Black and White and Numbered |

Inner Shield

| Shield Type | Material                | Coverage |
|-------------|-------------------------|----------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     |

Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type     |
|-------------|-------------------------|----------|--------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 18 AWG (7x26.5) TC |

Inner Jacket

| Material                 | Nom. Thickness    | Nom. Diameter       | Ripcord |
|--------------------------|-------------------|---------------------|---------|
| PVC - Polyvinyl Chloride | 0.083 in (2.1 mm) | 1.116 in (28.35 mm) | Yes     |

Aarmor

| Armor Type & Material          | Armor Thickness     | Diameter Over Armor |
|--------------------------------|---------------------|---------------------|
| AIA - Aluminum Interlock Armor | 1.376 in (34.95 mm) | 1.381 in (35.08 mm) |

Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter       | Ripcord |
|--------------------------|-------------------|---------------------|---------|
| PVC - Polyvinyl Chloride | 0.052 in (1.3 mm) | 1.480 in (37.59 mm) | Yes     |

|                                   |                     |
|-----------------------------------|---------------------|
| Overall Cable Diameter (Nominal): | 1.480 in (37.59 mm) |
|-----------------------------------|---------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Inner Shield DCR         | Max. Current                   |
|--------------------|-------------------------------|--------------------------------|
| 4.6 Ohm/1000ft     | 5.47 Ohm/1000ft (17.9 Ohm/km) | 9.5 Amps per Conductor at 30°C |

Voltage

| Voltage Rating |
|----------------|
| 300 V          |

Mechanical Characteristics

Temperature

| Operating                    |
|------------------------------|
| -40°C To +90°C Wet/105°C Dry |

Bend Radius

| Stationary Min.     | Installation Min.   |
|---------------------|---------------------|
| 17.76 in (451.1 mm) | 17.76 in (451.1 mm) |

|                    |                     |
|--------------------|---------------------|
| Max. Pull Tension: | 1401 lbs (635.5 kg) |
| Bulk Cable Weight: | 1008 lbs/1000ft     |

Standards and Compliance

|                            |                                      |
|----------------------------|--------------------------------------|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance |
| CEC / C(UL) Compliance:    | HLABCD                               |

History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.72 Revision Date: 01-04-2024 |
|----------------------|---|

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