



Product: [23527D](#)

ACIC 300V, 2 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, 2 Pair 16AWG (7x24) Tinned Copper, XLPE Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, Black 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) | 2 | 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, White and Numbered |

Inner Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 16 AWG (7x24) TC |

Outer Shield

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

Inner Jacket

| Material | Nom. Thickness | Nom. Diameter | Color |
|--------------------------|-------------------|--------------------|-------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.512 in (13.0 mm) | Black |

Armor

| Armor Type & Material | Armor Thickness | Diameter Over Armor |
|--------------------------------|--------------------|---------------------|
| AIA - Aluminum Interlock Armor | 0.737 in (18.7 mm) | 0.742 in (18.8 mm) |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.052 in (1.3 mm) | 0.841 in (21.4 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.841 in (21.4 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Inner Shield DCR | Max. Current |
|--------------------|----------------------------|---------------------------------|
| 4.6 Ohm/1000ft | 3.4 Ohm/1000ft (11 Ohm/km) | 5.12 Amps per Conductor at 30°C |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------------|-----------------------|
| 10.092 in (256.34 mm) | 10.092 in (256.34 mm) |

| | |
|--------------------|----------------------|
| Max. Pull Tension: | 400.9 lbs (181.8 kg) |
| Bulk Cable Weight: | 274 lbs/1000ft |

Standards and Compliance

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

History

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| Update and Revision: | Revision Number: 0.104 Revision Date: 01-04-2024 |
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