



**Product:** [23501D](#)

ACIC 300V, 1 Pr #16 Str TC, XLPE Ins E1, OS, PVC Jkt, AIA Armor, Blk PVC Jkt, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

## Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 1 Pair 16AWG (7x24) Tinned Copper, XLPE Insulation E1 Color Code, 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
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	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

#### 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)	0.313 in (7.95 mm)	Black

#### Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.493 in (12.5 mm)	0.498 in (12.6 mm)

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.597 in (15.2 mm)	Yes

Overall Cable Diameter (Nominal):	0.597 in (15.2 mm)
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### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Max. Current
4.6 Ohm/1000ft	6.4 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.
7.164 in (182.0 mm)	7.164 in (182.0 mm)

Max. Pull Tension:	293.8 lbs (133.3 kg)
Bulk Cable Weight:	170 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	FT4
CEC / C(UL) Compliance:	HLABCD

## History

Update and Revision:	Revision Number: 0.116 Revision Date: 04-08-2022
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