



**Product:** [23538D](#) 

ACIC 300V, 24 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, 24 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
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	24	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%	18 AWG (7x26) TC

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x24) TC

#### Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.376 in (34.95 mm)	Yes	Black

#### Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	1.636 in (41.55 mm)	1.641 in (41.68 mm)

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.062 in (1.6 mm)	1.760 in

Overall Cable Diameter (Nominal):	1.760 in
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### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
4.6 Ohm/1000ft	5.47 Ohm/1000ft (17.9 Ohm/km)	7.5 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.
21.12 in (536.4 mm)	21.12 in

Max. Pull Tension:	1972 lbs (894.5 kg)
Bulk Cable Weight:	1397 lbs/1000 ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
CEC / C(UL) Compliance:	ACIC, HLABCD
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.57 Revision Date: 03-11-2026
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