



Product: [24507D](#) 

ACIC 600V, 2 Tri #16 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, Blk PVC Jkt, 90C Wet 105C Dry CSA HLBCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 2 Triad 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 HLBCD 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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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Triads
Triad(s)	16	7x24	TC - Tinned Copper	2

Conductor Count:	6
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Triad(s)	XLP, XLPO, XLPE (Thermoset)	0.090 in	0.017 in

Color Chart

Color
Black & Red & White Numbered 1
Black & Red & White Numbered 2

Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18

Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.638 in	0.063 in

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	16

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.967 in	0.052 in

Construction and Dimensions

Armor

Type of Armor	Material
Interlocked	Aluminum

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR	Nominal Outer Shield DCR
4.6 Ohm/1000ft	5.11 Ohm/1000ft	3.26 Ohm/1000ft

Current

Max. Recommended Current [A]
14 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V RMS

Temperature Range

UL Temperature Rating:	105°C Dry, 90°C Wet
Operating Temperature Range:	-40°C To +105°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	364 lbs/1000ft
Maximum Recommended Pulling Tension:	473 lbs
Minimum Bend Radius During Installation:	11.6 in

Standards

CEC/C(UL) Compliance:	ACIC
CSA AWM Compliance:	C22.2 #239 Type ACIC, C22.2 #174 HL BCD
CSA Type:	CSA C22.2 #239, CSA C22.2 #174

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
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Suitability

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

Flammability, LSOH, Toxicity Testing

CSA/C(UL) Flammability:	FT4
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History

Update and Revision:	Revision Number: 0.186 Revision Date: 03-02-2026
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