



Product: [24516D](#) 

ACIC 600V, 1 Tri #18 Str TC, XLPE Ins E1, 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, 1 Triad 18AWG (7x26) 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 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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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Triad(s)	3	18 AWG	7x26	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	XLP, XLPO, XLPE (Thermoset)	0.031 in (0.79 mm)	0.160 in (4.06 mm)	Black & Red & White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Color
PVC - Polyvinyl Chloride	0.045 in (1.1 mm)	0.325 in (8.26 mm)	Black

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.629 in (16.0 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
7.4 Ohm/1000ft	14 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V RMS

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
7.55 in (192 mm)	7.55 in (192 mm)

Max. Pull Tension:	280 lbs (130 kg)
Bulk Cable Weight:	177 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	FT4
AWM Compliance:	C22.2 #239 Type ACIC, C22.2 #174 HL BCD
CEC / C(UL) Compliance:	ACIC, LL7874
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.57 Revision Date: 03-18-2026
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