



Product: [23507D](#)

ACIC 300V, 1 Tri #16 Str TC, XLPE Ins E1, OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Dry/Wet CSA HLBCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 1 Triad 16AWG (7x24) Tinned Copper, XLPE Insulation E1 Color Code, Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, 90C Dry/Wet 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)	1	16 AWG	7x24	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	XLP, XLPO, XLPE (Thermoset)	0.025 in (0.64 mm)	0.108 in mm	Black, White & Red

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)	0.329 in (8.36 mm)	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.509 in (12.9 mm)	0.514 in (13.1 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.613 in (15.6 mm)	Yes

Overall Cable Diameter (Nominal):	0.613 in (15.6 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.
7.356 in (186.8 mm)	7.356 in (186.8 mm)

Max. Pull Tension:	319.7 lbs (145.0 kg)
Bulk Cable Weight:	190 lbs/1000ft

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.107 Revision Date: 01-04-2024
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