



Product: [24500D](#)

ACIC 600V, 1 Pr #16 Str TC, XLPE Ins E1, OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 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	No. of Elements	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)	0.030 in (0.76 mm)	0.118 in mm	Black & White

Inner Shield

Material
No Shield

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	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.333 in (8.46 mm)	Yes

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.513 in (13.0 mm)	0.518 in (13.2 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.617 in (15.7 mm)

Overall Cable Diameter (Nominal):	0.617 in (15.7 mm)
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
4.6 Ohm/1000ft	15 Amps per Conductor at 30°C

Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

Operating
-40°C To +90°C Wet/105°C Dry

Bend Radius

Stationary Min.	Installation Min.
7.404 in (188.1 mm)	7.404 in (188.1 mm)

Max. Pull Tension:	294 lbs (133 kg)
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Bulk Cable Weight:	176 lbs/1000 ft
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Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
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CEC / C(UL) Compliance:	HLABCD
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History

Update and Revision:	Revision Number: 0.166 Revision Date: 02-15-2024
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