



Product: [24502](#)

ACIC 600V, 4 Pr #16 Str TC, PVC Ins E1, IS/OS, PVC Jkt, AIA Armor, PVC Jkt, 105C Dry 75C Wet CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 4 Pair 16AWG (7x24) Tinned Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, 105C Dry 75C Wet 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)	4	16 AWG	7x24	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.03 in (0.76 mm)	0.118 in (3.00 mm)	ICEA Chart E1

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%	16 AWG (7x24) TC

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.673 in (17.1 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.893 in (22.7 mm)

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter	Ripcord
Polyester Tape	PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.997 in	Yes

Overall Cable Diameter (Nominal): 0.997 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
4.2 Ohm/1000ft	5.4 Ohm/1000ft (18 Ohm/km)	4.4 Amps per Conductor at 30°C

Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

Operating	Installation
Dry: -40°C to +105°C, Wet: -40°C to +75°C	-25°C To +105

Bend Radius

Stationary Min.	Installation Min.
11.96 in (303.8 mm)	11.96 in

Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	412 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
AWM Compliance:	C22.2#239, Type ACIC, C22.2#174, HLABCD, C22.2#0.3, Clause 4.31 Low Acid Test
CEC / C(UL) Compliance:	ACIC, HLABCD, ACIC
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.375 Revision Date: 01-04-2024
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Part Numbers

Variants

Item #	Putup Type	UPC
24502 0602500	Reel	612825324300
24502 0605000	Reel	612825324317
24502 0605000	Reel	612825324317
24502 01010000	Reel	
24502 06010000	Reel	

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