



Product: 23509 ☑

ACIC 300V, 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 300V, 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
Outtable Applications.	system (DCS),programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

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	0.025 in (0.64 mm)	0.108 in (2.74 mm)	Black and White and Numbered

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Таре	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

Outer Shield

Shield Type	Material	Coverage	Drainwire Type	
Таре	Bi-Laminate (Alum+Poly)	100%	16 AWG (7x24) TC	

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Color
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.628 in (16.0 mm)	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.853 in (21.7 mm)

Outer Jacket

Materia	ial	Nom. Diameter	Ripcord
PVC - Polyviny	yl Chloride	0.957 in	Yes
Overall Cable [(Nominal):	Diameter	0.957 in	

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR
4.2 Ohm/1000ft	5.4 Ohm/1000ft (18 Ohm/km)

Voltage



Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
11.48 in (291.6 mm)	11.48 in
Max. Pull Tension:	200 lbs (91
Bulk Cable Weight:	387 lbs/100

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
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: 0.372 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Putup Type	UPC
23509 06010000	Reel	612825322481
23509 0602500	Reel	612825322511
23509 0605000	Reel	612825322528
23509 0605000	Reel	612825322528
23509 0607500	Reel	612825322535
23509 0085000	Reel	
23509 0602500	Reel	

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