



Product: [23524D](#) 

ACIC 300V, 12 Pr #18 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 12 Pair 18AWG (7x26) Tinned Copper, XLPE Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, 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)	12	18 AWG	7x26.5	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	XLP, XLPO, XLPE (Thermoset)	0.025 in (0.64 mm)	0.096 in mm	Black & White and Numbered

Inner Shield

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

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	0.083 in (2.1 mm)	0.915 in (23.2 mm)	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	1.175 in (29.85 mm)	1.180 in (29.97 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	1.279 in	Yes

Overall Cable Diameter (Nominal):	1.279 in
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
7.4 Ohm/1000ft	5.84 Ohm/1000ft (19.2 Ohm/km)	2.45 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.
15.348 in (389.84 mm)	15.348 in

Max. Pull Tension:	772.6 lbs (350.4 kg)
Bulk Cable Weight:	696 lbs/1000ft

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.58 Revision Date: 03-18-2026
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Part Numbers

Variants

Item #	Putup Type	UPC
23524D 0602500	Reel	612825323037
23524D 0605000	Reel	612825323044

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