Belden



Product: 25504D

ACIC 600V, 1 Pr #16 Str TC, XLPE Ins E1, OS, PVC Inner Jkt, SIA Armor, Blk 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, Steel 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

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 and Numbered

Inner Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	16 AWG (7x24) 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	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.333 in (8.46 mm)	Yes

Armor

Armor Type & Material	Armor Thickness
SIA - Steel Interlock Armor	0.513 in (13.0 mm)

Outer Jacket

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

Overall Cable Diameter (Nominal):	0.617 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
4.6 Ohm/1000ft	19 Amps per Conductor at 30ºC

Nom Outer Shield DCR:	5.47 Ohm/1000ft (17.9 Ohm/km)

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

Max. Pull Tension:	294 lbs (133 kg)
Bulk Cable Weight:	336 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
CEC / C(UL) Compliance:	ACIC, HLABCD
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.110 Revision Date: 10-07-2026

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