Belden



Product: 24515D

ACIC 600V, 12 Pr #18 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, Blk PVC Jkt, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 12 Pair 18AWG (7x26) Tinned Copper, XLPE Insulation E1 Color Code, Individual & 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	24	18	7x26	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	XLP, XLPO, XLPE (Thermoset)	0.03 in (0.76 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%	20 AWG (7x28) TC

Inner Jacket

Material	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.989 in (25.1 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness
AIA - Aluminum Interlock Armor	1.353

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.031 in (0.79 mm)	1.353 in (34.37 mm)	Yes

Electrical Characteristics

Electricals

Nom. Conductor DCR
14.7 Ohm/1000ft (48.2 Ohm/km)

Voltage

Voltage Rating

600 V

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
16.2 In

Max. Pull Tension:	200 Lbs.
Bulk Cable Weight:	741 lbs/1000ft (1100 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
AWM Compliance:	C22.2 #239 Type ACIC, C22.2 #174 HL BCD
CEC / C(UL) Compliance:	ACIC, HLABCD
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.58 Revision Date: 10-30-2026

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