Belden



Product: 23568D

ACIC 300V, 36 Pr #16 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Dry/Wet CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 36 Pair 16AWG (7x24) Tinned Copper, XLPE Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, 90C Dry/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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	72	16	7x24	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter
Pair(s)	XLP, XLPO, XLPE (Thermoset)	0.025 in (0.64 mm)	0.090 in (2.3 mm)

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. Diameter
PVC - Polyvinyl Chloride	1.57 in (39.9 mm)

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket

Material
PVC - Polyvinyl Chloride

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
4.2 ohm/1000ft	10 Amps per Conductor at 30ºC

Voltage

UL Voltage Rating

300 V

Mechanical Characteristics

Temperature

Operating
-40°C To +105°C

Bend Radius

Installation Min.
23.7 in (602 mm)

Max. Pull Tension:	771 lbs (350 kg)
Bulk Cable Weight:	1978 lbs/1000ft (2944 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	FT4
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: 0.102 Revision Date: 10-30-2026

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