Belden



Product: 24533D

ACIC 600V, 6 Tri #16 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, Blk PVC Jkt, 90C Wet 105C Dry CSA HLBCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 600V, 6 Triad 16AWG (7x24) TC, XLPE Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, Black PVC Outer Jacket, 90C Wet 105C Dry CSA HLBCD 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
Triad(s)	6	16 AWG	7x24	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.118 in mm	Black, White, Red 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	0.083 in (2.1 mm)	0.926 in (23.5 mm)	Yes

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	1.186 in (30.12 mm)	1.191 in (30.25 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	1.290 in	Yes

Overall Cable Diameter (Nominal):	1.290 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
4.6 Ohm/1000ft	3.08 Ohm/1000ft (10.1 Ohm/km)	3.2 Amps per Conductor at 30ºC

Nom Outer Shield DCR:	5.3 Ohm/1000ft (17 Ohm/km)

Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
15.48 in (393.2 mm)	15.48 in

Max. Pull Tension:	605 lbs (274 kg)
Bulk Cable Weight:	722 lbs/1000ft

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.56 Revision Date: 10-07-2026

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