Belden



Product: 23529D

ACIC 300V, 6 Tri #16 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Wet 105C Dry CSA HLBCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 6 Triad 16AWG (7x24) 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 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)	0.025 in (0.64 mm)	0.108 in mm	Black & White & Red and Numbered

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. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.826 in (21.0 mm)	Yes

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	1.086 in (27.58 mm)	1.091 in (27.71 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	1.190 in	Yes

Overall Cable Diameter (Nominal):	1.190 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
4.6 Ohm/1000ft	5.47 Ohm/1000ft (17.9 Ohm/km)	9 Amps per Conductor at 30ºC

Nom Outer Shield DCR:	3.08 Ohm/1000ft (10.1 Ohm/km)

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
14.28 in (362.7 mm)	14.28 in

Max. Pull Tension:	901 lbs (409 kg)
Bulk Cable Weight:	630 lbs/1000 ft

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.86 Revision Date: 10-07-2026

Part Numbers

Variants

Item #	Putup Type	UPC
23529D 0602500	Reel	612825323228
23529D 0605000	Reel	612825323235

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