

Product: 23515D

ACIC 300V, 4 Tri #18 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, 4 Triad 18AWG (7x26) 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)	12	18 AWG	7x26	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	XLP, XLPO, XLPE (Thermoset)	0.026 in (0.66 mm)	0.093 in (2.4 mm)	Black & Red & White Numbered 1, Black & Red & White Numbered 2, Black & Red & White Numbered 3, Black & Red & White Numbered 4

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%	18 AWG (7x26) TC

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Color
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.630 in (16.0 mm)	Black

Armor

Armor Type & Material
AIA - Aluminum Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.959 in (24.4 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
7.4 Ohm/1000ft	8.3 Ohm/1000ft (27 Ohm/km)	7 Amps per Conductor at 30ºC

Nom Outer Shield DCR:	4.71 Ohm/1000ft (15.5 Ohm/km)

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C Dry, 90°C Wet	-40°C To +105°C

Bend Radius

Stationary Min.	Installation Min.
11.51 in (292.4 mm)	11.51 in (292.4 mm)

Max. Pull Tension:	504 lbs (229 kg)
Bulk Cable Weight:	375 lbs/1000ft (558 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	FT4
AWM Compliance:	C22.2 #239 Type ACIC, C22.2 #174 HL BCD
CEC / C(UL) Compliance:	ACIC, LL7874
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.69 Revision Date: 10-30-2026

Part Numbers

Variants

Item #	Putup Type	UPC
23515D 06010000	Reel	612825322764
23515D 0605000	Reel	612825322795

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