Belden



Product: 23514D

ACIC 300V, 4 Pr #20 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 4 Pair 20AWG (7x28) 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 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)	4	20 AWG	7x28	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	XLP, XLPO, XLPE (Thermoset)	0.020 in (0.51 mm)	0.078 in 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%	22 AWG (7x30) TC

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.463 in (11.8 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.688 in (17.5 mm)	0.693 in (17.6 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.792 in	Yes

Overall Cable Diameter (Nominal):	0.792 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
11.7 Ohm/1000ft (38.4 Ohm/km)	7.38 Ohm/1000ft (24.2 Ohm/km)	2.59 Amps per Conductor at 30ºC

Nom Outer Shield DCR:	12.39 Ohm/1000ft (40.65 Ohm/km)

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
9.504 in (241.4 mm)	9.504 in (241.4 mm)

Max. Pull Tension:	322.5 lbs (146.3 kg)
Bulk Cable Weight:	242 lbs/1000ft

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: 0.62 Revision Date: 10-07-2026

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