Belden



Product: 21594

TC-CIC 600V, 46+G C #12 AWG BC, XLPE Ins, Blk PVC Jkt, 90C Dry/Wet CSA HL SUN RES DIR BUR

Product Description

Canadian Instrumentation Cable TC-CIC 600V, 46+G Conductor 12AWG (7x20) Bare Copper, XLPE Insulation, Black PVC Outer Jacket, CSA 22.2 #239 (CIC) CSA 22.2 #230 (TC) SUN RES

Technical Specifications

Product Overview

Suitable Applications:	CEC Power and Control Applications

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	46	12	7x20	BC - Bare Copper
Ground Wire	1	14 AWG	7x22	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.032 in (0.81 mm)	0.150 in (3.81 mm)	Black and numbered
Ground Wire	XLP, XLPO, XLPE (Thermoset)		0.150 in (3.81 mm)	Green

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.095 in (2.4 mm)	1.390 in (35.31 mm)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.6 Ohm/1000ft (5.2 Ohm/km)	25 Amps per Conductor at 30ºC
Ground Wire		

Voltage

Voltage Rating
(CSA TC)

Mechanical Characteristics

Temperature

Operating	Installation
Wet/Dry: -40°C to 90°C	-25°C To +90

Bulk Cable Weight:	1525 lbs/1000ft (2269 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
AWM Compliance:	C22.2#230 Type TC, C22.2#239 Type CIC
CEC / C(UL) Compliance:	TC, CIC

European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.21 Revision Date: 10-07-2026

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