Belden



Product: 21643

TC-CIC 600V, 45 C #10 Str BC, XLPE Ins, Blk PVC Jkt, 90C Dry/Wet CSA HL SUN RES DIR BUR

Product Description

CSA Tray TC-CIC 600V, 45 Conductor 10AWG (7x18) Bare Copper, XLPE Insulation, Black PVC Outer Jacket, 90C Dry/Wet CSA HL SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	CEC Power and Control Applications

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	45	10 AWG	7x18	BC - Bare Copper
Ground	1	12 AWG	7x18	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.174 in (4.42 mm)	Black and Numbered
Ground	XLP, XLPO, XLPE (Thermoset)		0.174 in (4.42 mm)	Green

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.095 in (2.4 mm)	1.582 in (40.18 mm)	Yes

Overall Cable Diameter (Nominal):	1.582 in (40.18 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.04 Ohm/1000ft (3.41 Ohm/km)	35 Amps per Conductor at 30ºC
Ground Wire		

Voltage

Voltage Rating
600 V (CSA TC)

Mechanical Characteristics

Temperature

Operating	Installation
-40°C To +90°C	-25°C To +90

Bulk Cable Weight:	2176 lbs/1000ft (3238 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/OutdoorDirect Burial, Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	FT4
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 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.11 Revision Date: 10-07-2026

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