Belden



Product: 21551

TC-CIC 600V, 3+G C #12 AWG BC, XLPE Ins, Blk PVC Jkt, 90C Dry/Wet CSA HL SUN RES DIR BUR

Product Description

Three 12 AWG stranded (7x20) bare copper conductors plus ground wire, cross-linked polyethylene insulation, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	CEC Power and Control Applications

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	12 AWG	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, Red, Blue
Ground Wire	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.150 in (3.81 mm)	Green

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.057 in (1.4 mm)	0.497 in	Yes

Overall Cable Diameter (Nominal):	0.497 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.6 Ohm/1000ft (5.2 Ohm/km)	30 Amps per Conductor at 30ºC
Ground Wire	2.67 Ohm/1000ft (8.76 Ohm/km)	

Voltage

Voltage Rating
600 V (CSA TC)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
1.988 in (50.50 mm)	2.485 in

Max. Pull Tension:	315 lbs (143 kg)
Bulk Cable Weight:	149 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV 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: 0.298 Revision Date: 10-07-2026

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