

Product: 21651

600V Type TC/CIC, (3) 8 AWG (7x16) BC+Grd, FR-XLPE/FR-PVC

Product Description

Three 8 AWG stranded (7x16) bare copper conductors plus ground wire, flame retardant cross-linked polyethylene insulation, flame retardant 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	8 AWG	7x16	BC - Bare Copper
Ground	1	8 AWG	7x20	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.047 in (1.2 mm)	0.236 in (5.99 mm)	Black, Blue, Red
Ground	XLP, XLPO, XLPE (Thermoset)		0.236 in (5.99 mm)	Yellow/Green

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.073 in (1.9 mm)	0.650 in (16.5 mm)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.6 Ohm/1000ft (5.2 Ohm/km)	55 Amps per Conductor at 30ºC
Ground Wire		

Voltage

Voltage Rating
600 V (CSA TC)

Mechanical Characteristics

Temperature

Operating
Wet/Dry: -40°C to 90°C

Bulk Cable Weight:	333 lbs/1000ft (496 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: 0.10 Revision Date: 10-07-2026

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