Belden



Product: 21657

600V Type TC/CIC, (3) 8 AWG (7x12) BC+Grd, FR-XLPE/FR-PVC

Product Description

Three 8 AWG stranded (7x12) 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	4	7x12	BC - Bare Copper
Ground	1			BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.060 in (1.5 mm)	0.347 in (8.81 mm)	Black, Red, Blue
Ground	XLP, XLPO, XLPE (Thermoset)		0.347 in (8.81 mm)	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.095 in (2.4 mm)	0.927 in (23.5 mm)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR
Conductor(s)	1.6 Ohm/1000ft (5.2 Ohm/km)
Ground Wire	

Voltage

UL Voltage Rating	Voltage Rating
600 V	600 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	Wet/Dry: -40°C to 90°C

Bulk Cable Weight:	610 lbs/1000ft (910 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/OutdoorDirect Burial, Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading, 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: 0.31 Revision Date: 10-07-2026

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