BELDEN

Product: [5102U1](#) ⧉

Security & Sound, #14-4c, TC, CL3-FPL-PLTC, Water-Blocked

Product Description

Security & Sound Cable, Rated-CL3-FPL-PLTC, 4-14 AWG stranded tinned copper conductors with PVC insulation, Waterblocking tape, PVC jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	Security System, Intercom/PA, Audio/Speaker, Fire Alarm (Red Jkt), Power-Limited Controls, Wet Location, Below-Grade Duct

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	14	19x27	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.12 in (3.0 mm)	Black, Red, White, Green

Waterblocking:	Waterblock Tape

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Waterblocking Tape	PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.427 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
2.73 Ohm/1000ft	31 pF/ft (100 pF/m)	14 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V RMS (PLTC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-30°C To +105°C

Bend Radius

Stationary Min.	Installation Min.
4.27 in (108 mm)	4.27 in

Max. Pull Tension:	190 lbs (86 kg)
Bulk Cable Weight:	109 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL1685 FT4 loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, Article 760, Article 800
CEC / C(UL) Compliance:	CL3
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: 0.390 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	UPC
5102U1 0101000	Black	612825156819
5102U1 0021000	Red	612825156796