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: 0.391 Revision Date: 09-07-2025 |

## Part Numbers

**Variants**

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

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