Belden



# Product: 6542FE

Security & Sound, #22-3pr, BC, Shielded, CMP

## Product Description

Security & Sound Cable, Plenum-CMP, 3-22 AWG stranded bare copper pairs with Flamarrest® insulation, Beldfoil® shield and Flamarrest® jacket with ripcord

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Security System, Intercom/PA, Audio/Speaker, Power-Limited Controls, Noisy Environment |

### Construction Details

**Conductor**

| Element | No. of Elements | Size | Stranding | Material |
|---|---|---|---|---|
| Pair(s) | 3 | 22 | 7x30 | BC - Bare Copper |

**Insulation**

| Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|
| PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.047 in (1.2 mm) | Black & Red, Black & White, Black & Green |

**Outer Shield**

| Shield Type | Material | Coverage | Drainwire Type |
|---|---|---|---|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |

**Outer Jacket**

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|---|---|---|---|
| PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | 0.216 in (5.49 mm) | Yes |

### Electrical Characteristics

**Electricals**

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Inductance | Max. Current |
|---|---|---|---|---|
| 17.6 Ohm/1000ft | 33 pF/ft (110 pF/m) | 59.4 pF/ft (195 pF/m) | 0.18 µH/ft (0.59 µH/m) | 2 Amps per Conductor at 25ºC |

| | |
|---|---|
| Nom Outer Shield DCR@Cond DCR1-cnv: | 14.4 Ohm/1000ft (47.2 Ohm/km) |

**Voltage**

| UL Voltage Rating |
|---|
| 300 V |

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 75°C | 0°C To +75°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 2.16 in (54.9 mm) | 2.16 in (54.9 mm) |

| | |
|---|---|
| Max. Pull Tension: | 60.1 lbs (27.3 kg) |

| | |
|---|---|
| Bulk Cable Weight: | 26.1 lbs/1000ft |

## Standards and Compliance

| | |
|---|---|
| Flammability / Reaction to Fire: | NFPA 262 (UL910), FT6 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 800, CMP |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark |
| UK Regulation Compliance: | UKCA Mark |
| Non-Plenum Number: | 5542FE |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.423 Revision Date: 09-07-2025 |

## Part Numbers

**Variants**

| Item # | Color | UPC |
|---|---|---|
| 6542FE 8771000 | Natural | 612825178361 |
| 6542FE 877U1000 | Natural | 612825178354 |

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