Belden



# Product: 5545FE

Security & Sound, #22-6pr, BC, Shielded, CMR

## Product Description

Security & Sound Cable, Riser-CMR, 6-22 AWG stranded bare copper pairs with polyolefin insulation, Beldfoil® shield and PVC 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) | 6 | 22 | 7x30 | BC - Bare Copper |

**Insulation**

| Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|
| PO - Polyolefin | 0.008 in (0.20 mm) | 0.045 in (1.1 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown |

**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 | 0.020 in (0.51 mm) | 0.253 in | Yes |

### Electrical Characteristics

**Electricals**

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|---|---|---|---|
| 17.6 Ohm/1000ft | 25.75 pF/ft (84.48 pF/m) | 46.5 pF/ft (153 pF/m) | 2 Amps per Conductor at 25ºC |

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

**Voltage**

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

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 75°C | -20°C To +75°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 2.53 in (64.3 mm) | 2.53 in |

| | |
|---|---|
| Max. Pull Tension: | 114.7 lbs (52.03 kg) |

| | |
|---|---|
| Bulk Cable Weight: | 40 lbs/1000ft |

## Standards and Compliance

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|---|---|
| Flammability / Reaction to Fire: | UL 1666 riser, FT4 |
| NEC / UL Compliance: | Article 800, CMR |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Plenum Number: | 6545FE |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.309 Revision Date: 09-07-2025 |

## Part Numbers

**Variants**

| Item # | Color | UPC | Footnote |
|---|---|---|---|
| 5545FE 0081000 | Gray | 612825164401 | C |

| | |
|---|---|
| Footnote: | C - CRATE REEL PUT-UP. |

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