# Product: 6506FE

Security & Sound, #22-8c BC, Shielded, CMP

## Product Description

Security & Sound Cable, Plenum-CMP, 8-22 AWG stranded bare copper conductors 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 |
|---|---|---|---|---|
| Conductor(s) | 8 | 22 AWG | 7x30 | BC - Bare Copper |

**Insulation**

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|---|
| Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.047 in (1.2 mm) | Black, Red, White, Green, Brown, Blue, Orange, Yellow |

**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) | 0.190 in (4.83 mm) | Yes |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.190 in (4.83 mm) |

### Electrical Characteristics

**Electricals**

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|---|---|---|---|---|
| Conductor(s) | 16.2 Ohm/1000ft | 33 pF/ft (110 pF/m) | 59 pF/ft (190 pF/m) | 1.9 Amps per Conductor at 25ºC |

**Voltage**

| UL Voltage Rating |
|---|
| 300 V (CMP) |

### Mechanical Characteristics

**Temperature**

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

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 1.9 in (48 mm) | 1.9 in (48 mm) |

| | |
|---|---|
| Max. Pull Tension: | 78 lbs (35 kg) |
| Bulk Cable Weight: | 32 lbs/1000ft |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum), FT6 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 800, CMP |
| CEC / C(UL) Compliance: | CMP |
| 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) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 5506FE |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.469 Revision Date: 02-03-2025 |

## Part Numbers

**Variants**

| Item # | Color | UPC | Footnote |
|---|---|---|---|
| 6506FE 010U1000 | Black | 612825377887 | |
| 6506FE 010U1000 | Black | 612825377887 | |
| 6506FE 8771000 | Natural | 612825177968 | C |
| 6506FE 877500 | Natural | 612825177975 | C |
| 6506FE 877U1000 | Natural | 612825177951 | |
| 6506FE 0071000 | Violet | 612825377733 | |
| 6506FE 0071000 | Violet | 612825377733 | |
| 6506FE 007U1000 | Violet | 612825377825 | |
| 6506FE 007U1000 | Violet | 612825377825 | |
| 6506FE 0041001 | Yellow | 612825177944 | |

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