



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 |
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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 25°C |

| | |
|--------------------------------------|---------------------------------|
| Nom Outer Shield DCR@Cond DCR1-cnvt: | 18.54 Ohm/1000ft (60.83 Ohm/km) |
|--------------------------------------|---------------------------------|

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

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| Update and Revision: | Revision Number: 0.470 Revision Date: 09-07-2025 |
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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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| Footnote: | C - CRATE REEL PUT-UP. |
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