



Product: [6500FE](#)

Security & Sound, 2 Conductor 22 AWG, BC, Shielded, CMP

Product Description

Security & Commercial Audio Cable, Plenum-CMP, 2-22 AWG stranded bare copper conductors with Flamarrest® insulation, Beldfoil® shield and Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

|                        |                                             |
|------------------------|---------------------------------------------|
| Suitable Applications: | Intercom/PA Systems and Sound/Audio Systems |
|------------------------|---------------------------------------------|

Construction Details

Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 2               | 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 |

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) | 0.128 in (3.25 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.128 in (3.25 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|--------------|--------------------|-------------------------------|-------------------------------------------------|------------------------------|
| Conductor(s) | 16.9 Ohm/1000ft    | 55 pF/ft (180 pF/m)           | 99 pF/ft (320 pF/m)                             | 6 Amps per Conductor at 25°C |

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. |
|-----------------|-------------------|
| 1.3 in (33 mm)  | 1.3 in (33 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 24 lbs (11 kg) |
| Bulk Cable Weight: | 11 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor - Plenum, Indoor                                                      |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2                                |
| CPR Compliance:                  | CPR Euroclass: Eca                                                           |
| NEC / UL Compliance:             | Article 800, CMP                                                             |
| CEC / C(UL) Compliance:          | CMP                                                                          |
| European Directive Compliance:   | EU CE Mark, 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:               | 5500FE                                                                       |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.527 Revision Date: 02-15-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #          | Color   | Putup Type   | Length   | UPC          | Footnote |
|-----------------|---------|--------------|----------|--------------|----------|
| 6500FE 010U250  | Black   | UnReel       | 250 ft   | 612825177302 |          |
| 6500FE 010U500  | Black   | UnReel       | 500 ft   | 612825423171 |          |
| 6500FE 010Z500  | Black   | ReelTuff Box | 500 ft   |              |          |
| 6500FE 010U1000 | Black   | UnReel       | 1,000 ft | 612825177296 |          |
| 6500FE 010Z1000 | Black   | ReelTuff Box | 1,000 ft | 612825177357 |          |
| 6500FE 008U1000 | Gray    | UnReel       | 1,000 ft | 612825423997 |          |
| 6500FE 008Z1000 | Gray    | ReelTuff Box | 1,000 ft | 612825177265 |          |
| 6500FE 877U250  | Natural | UnReel       | 250 ft   | 612825177340 |          |
| 6500FE 877500   | Natural | Reel         | 500 ft   | 612825177319 |          |
| 6500FE 877C500  | Natural | Coil         | 500 ft   | 612825177326 |          |
| 6500FE 877U500  | Natural | UnReel       | 500 ft   | 612825423973 |          |
| 6500FE 8771000  | Natural | Reel         | 1,000 ft | 612825177364 | C        |
| 6500FE 877U1000 | Natural | UnReel       | 1,000 ft | 612825177333 |          |
| 6500FE 877Z1000 | Natural | ReelTuff Box | 1,000 ft | 612825177371 |          |
| 6500FE 0031000  | Orange  | Reel         | 1,000 ft | 612825350705 |          |
| 6500FE 003U1000 | Orange  | UnReel       | 1,000 ft | 612825423980 |          |
| 6500FE 003Z1000 | Orange  | ReelTuff Box | 1,000 ft | 612825416586 |          |
| 6500FE 009U250  | White   | UnReel       | 250 ft   | 612825423164 |          |
| 6500FE 009U1000 | White   | UnReel       | 1,000 ft | 612825177272 |          |
| 6500FE 009Z1000 | White   | ReelTuff Box | 1,000 ft | 612825177289 |          |

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