



Product: [6300FE](#)

Security & Sound, 2 Conductor 18 AWG, BC, Shielded, CMP

Product Description

Security & Commercial Audio Cable, Plenum-CMP, 2-18 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, Noisy Environment |
|------------------------|----------------------------------------------------------------|

Construction Details

Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 2               | 18 AWG | 7x26      | BC - Bare Copper |

Insulation

| Element      | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code |
|--------------|--------------------------|--------------------|--------------------------|------------|
| Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.063 in (1.6 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) | 0.162 in (4.11 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.162 in (4.11 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|--------------|--------------------|-------------------------------|-------------------------------------------------|------------------------------|
| Conductor(s) | 6.4 Ohm/1000ft     | 70 pF/ft (230 pF/m)           | 126 pF/ft (413 pF/m)                            | 14 Amps per conductor @ 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. |
|-----------------|-------------------|
| 1.6 in (41 mm)  | 1.6 in (41 mm)    |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 50.3 lbs (22.8 kg) |
| Bulk Cable Weight: | 21 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 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:               | 5300FH                                                                                                                    |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.527 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #          | Color       | Putup Type   | Length   | UPC          | Footnote |
|-----------------|-------------|--------------|----------|--------------|----------|
| 6300FE 010Z500  | Black       | ReelTuff Box | 500 ft   |              |          |
| 6300FE 010U1000 | Black       | UnReel       | 1,000 ft | 612825423201 |          |
| 6300FE 010I1000 | Black       | Reel         | 1,000 ft | 612825174721 |          |
| 6300FE 010Z1000 | Black       | ReelTuff Box | 1,000 ft | 612825174752 |          |
| 6300FE D15I1000 | Blue        | Reel         | 1,000 ft | 612825174776 |          |
| 6300FE 008U1000 | Gray        | UnReel       | 1,000 ft | 612825423188 |          |
| 6300FE 008Z1000 | Gray        | ReelTuff Box | 1,000 ft | 612825350613 |          |
| 6300FE 005I1000 | Green, Dark | Reel         | 1,000 ft | 612825350606 |          |
| 6300FE 877500   | Natural     | Reel         | 500 ft   | 612825174738 |          |
| 6300FE 877U500  | Natural     | UnReel       | 500 ft   | 612825423218 |          |
| 6300FE 877I1000 | Natural     | Reel         | 1,000 ft | 612825174769 | C        |
| 6300FE 877U1000 | Natural     | UnReel       | 1,000 ft | 612825174745 |          |
| 6300FE 877Z1000 | Natural     | ReelTuff Box | 1,000 ft | 612825350699 |          |
| 6300FE 002I1000 | Red         | Reel         | 1,000 ft | 612825350576 |          |
| 6300FE 007I1000 | Violet      | Reel         | 1,000 ft | 612825174684 |          |
| 6300FE 009U250  | White       | UnReel       | 250 ft   | 612825174714 |          |
| 6300FE 009U500  | White       | UnReel       | 500 ft   | 612825423195 |          |
| 6300FE 009U1000 | White       | UnReel       | 1,000 ft | 612825174707 |          |
| 6300FE 009I1000 | White       | Reel         | 1,000 ft | 612825174691 |          |
| 6300FE 009Z1000 | White       | ReelTuff Box | 1,000 ft | 612825350620 |          |
| 6300FE 004I1000 | Yellow      | Reel         | 1,000 ft | 612825350583 |          |

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