



**Product:** [5301FE](#) 

Security & Sound, 3 Conductor 18 AWG, BC, Shielded, CMR

## Product Description

Security & Commercial Audio Cable, Riser-CMR, 3-18 AWG stranded bare copper conductors with polypropylene insulation, Beldfoil® shield and PVC jacket with ripcord

## Technical Specifications

### Product Overview

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

### Construction Details

#### Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 3               | 18 AWG | 7x26      | BC - Bare Copper |

#### Insulation

| Element      | Material        | Nom. Thickness     | Nom. Insulation Diameter | Color Code        |
|--------------|-----------------|--------------------|--------------------------|-------------------|
| Conductor(s) | PO - Polyolefin | 0.009 in (0.23 mm) | 0.062 in (1.6 mm)        | Black, Red, White |

#### 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 | 0.017 in (0.43 mm) | 0.171 in (4.34 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.171 in (4.34 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                |
|--------------|--------------------|-------------------------------|-------------------------------------------------|-----------------------------|
| Conductor(s) | 6.5 Ohm/1000ft     | 36 pF/ft (120 pF/m)           | 64.75 pF/ft (212.4 pF/m)                        | 5 Amps per conductor @ 25°C |

|                                      |                               |
|--------------------------------------|-------------------------------|
| Nom Outer Shield DCR@Cond DCR1-cnvt: | 16.9 Ohm/1000ft (55.4 Ohm/km) |
|--------------------------------------|-------------------------------|

#### Voltage

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

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|-----------------|-------------------|

|                    |                |
|--------------------|----------------|
| 1.7 in (43 mm)     | 1.7 in (43 mm) |
| Max. Pull Tension: | 81 lbs (37 kg) |
| Bulk Cable Weight: | 24 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor - Riser, Indoor                                                       |
| Flammability / Reaction to Fire: | UL 1666 Riser, FT4, IEC 60332-1-2                                            |
| CPR Compliance:                  | CPR Euroclass: Eca                                                           |
| 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) |
| UK Regulation Compliance:        | UKCA Mark                                                                    |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                              |
| Plenum Number:                   | 6301FE                                                                       |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.508 Revision Date: 09-07-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #          | Color  | Putup Type             | Length   | UPC/EAN       | Footnote |
|-----------------|--------|------------------------|----------|---------------|----------|
| 5301FE.00305    | Chrome | Reel                   | 305 m    | 8719605008206 |          |
| 5301FE 008500   | Gray   | Reel                   | 500 ft   | 612825336815  |          |
| 5301FE 008U500  | Gray   | UnReel                 | 500 ft   | 612825425564  |          |
| 5301FE 0081000  | Gray   | Reel                   | 1,000 ft | 612825336839  | C        |
| 5301FE 008U1000 | Gray   | UnReel                 | 1,000 ft | 612825159438  |          |
| 5301FE 008Z1000 | Gray   | ReelTuff Box           | 1,000 ft | 612825159452  |          |
| Footnote:       |        | C - CRATE REEL PUT-UP. |          |               |          |

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