



**Product:** [5100FE](#)

Security & Sound, 2 Conductor 14 AWG, BC, Shielded, CL3R, FPLR

### Product Description

Security & Commercial Audio Cable, Riser-CL3R-FPLR, 2-14 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, Fire Alarm Systems |
|------------------------|--|

#### Construction Details

##### Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 2               | 14 AWG | 19x26     | BC - Bare Copper |

##### Insulation

| Element      | Material           | Nom. Thickness     | Nom. Insulation Diameter | Color Code   |
|--------------|--------------------|--------------------|--------------------------|--------------|
| Conductor(s) | PP - Polypropylene | 0.011 in (0.28 mm) | 0.092 in (2.3 mm)        | Black, White |

##### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 22 AWG (7x30) TC |

##### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      | Ripcord |
|--------------------------|--------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.222 in (5.64 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.222 in (5.64 mm) |
|-----------------------------------|--------------------|

#### Electrical Characteristics

##### Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|--------------|--------------------|-------------------------------|---|------------------------------|
| Conductor(s) | 2.54 Ohm/1000ft    | 54 pF/ft (180 pF/m)           | 97.25 pF/ft (319.1 pF/m)                        | 25 Amps per conductor @ 30°C |

##### Voltage

###### UL Voltage Rating

300 V (CL3R, FPLR)

#### Mechanical Characteristics

##### Temperature

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

##### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.2 in (56 mm)  | 2.2 in (56 mm)    |

|                    |                      |
|--------------------|----------------------|
| Max. Pull Tension: | 104.1 lbs (47.22 kg) |
| Bulk Cable Weight: | 37 lbs/1000ft        |

## Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor - Riser, Indoor  |
| Flammability / Reaction to Fire: | UL 1666 Riser, IEEE 1202 FT4, IEC 60332-1-2   |
| CPR Compliance:                  | CPR Euroclass: Eca  |
| NEC / UL Compliance:             | Article 725, Article 760, CL3R, FPLR  |
| 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)   |
| Plenum Number:                   | 6100FH  |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.527 Revision Date: 04-14-2023 |
|----------------------|--|

## Part Numbers

### Variants

| Item #          | Color  | Putup Type   | Length   | UPC/EAN       | Footnote |
|-----------------|--------|--------------|----------|---------------|----------|
| 5100FE.00152    | Chrome | Reel         | 152 m    | 8719605007704 |          |
| 5100FE.00305    | Chrome | Reel         | 305 m    | 8719605007728 |          |
| 5100FE.001000   | Chrome | Reel         | 1,000 m  | 8719605007698 |          |
| 5100FE 008500   | Gray   | Reel         | 500 ft   | 612825156222  |          |
| 5100FE 0081000  | Gray   | Reel         | 1,000 ft | 612825156246  | C        |
| 5100FE 008U1000 | Gray   | UnReel       | 1,000 ft | 612825423591  |          |
| 5100FE 008Z1000 | Gray   | ReelTuff Box | 1,000 ft | 612825156260  |          |
| 5100FE.003000   | Gray   | Reel         | 3,000 m  | 8719605007711 |          |
| 5100FE 0021000  | Red    | Reel         | 1,000 ft | 612825423584  | C        |
| 5100FE 002Z1000 | Red    | ReelTuff Box | 1,000 ft | 612825156239  |          |

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