



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

Fire Alarm, #14-2c BC, Shielded, FPLR

### Product Description

Fire Alarm Cable, Riser-FPLR, 2-14 AWG stranded bare copper conductors with polyolefin insulation, overall Beldfoil® shield, PVC jacket with ripcord

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Fire Alarm, Monitor/Detection, Circuits: Audio, Control, Initiating, Notification, Noisy Environment |
|------------------------|--|

#### Construction Details

##### Conductor

| Element | No. of Elements | Size   | Stranding | Material         |
|---------|-----------------|--------|-----------|------------------|
| Pair(s) | 1               | 14 AWG | 19x27     | BC - Bare Copper |

##### Insulation

| Element | Material           | Nom. Thickness     | Nom. Insulation Diameter | Color Code  |
|---------|--------------------|--------------------|--------------------------|-------------|
| Pair(s) | PP - Polypropylene | 0.011 in (0.28 mm) | 0.092 in (2.3 mm)        | Black & Red |

##### 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      | Yes     |

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

#### Electrical Characteristics

##### Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|--------------------|-------------------------------|---|------------------------------|
| 2.72 Ohm/1000ft    | 29.5 pF/ft (96.8 pF/m)        | 53.1 pF/ft (174 pF/m)                           | 8 Amps per Conductor at 25°C |

##### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V             |

#### Mechanical Characteristics

##### Temperature

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

##### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.3 in (84 mm)  | 3.3 in            |

|                    |                   |
|--------------------|-------------------|
| Max. Pull Tension: | 108 lbs (49.0 kg) |
| Bulk Cable Weight: | 37 lbs/1000ft     |

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor   |
| Flammability / Reaction to Fire: | UL1666 Riser   |
| NEC / UL Compliance:             | Article 760, FPLR  |
| European Directive Compliance:   | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)  |
| Plenum Number:                   | 6100FL   |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.334 Revision Date: 05-05-2023 |
|----------------------|--|

## Part Numbers

### Variants

| Item #          | Color | UPC          | Footnote |
|-----------------|-------|--------------|----------|
| 5100FL 0021000  | Red   | 612825156284 | C        |
| 5100FL 002U1000 | Red   | 612825156277 |          |

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