



**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 |
|------------------------|------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material         | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 14  | 19x27     | BC - Bare Copper | 2                 |

|                  |   |
|------------------|---|
| Conductor Count: | 2 |
|------------------|---|

#### Insulation

| Material           | Nominal Wall Thickness |
|--------------------|------------------------|
| PP - Polypropylene | 0.011 in               |

#### Color Chart

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | Red   |

#### Outer Shield Material

| Type | Material    | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil®           | 100%         | TC - Tinned Copper | 22            | Solid                        |

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 0.222 in         | 0.017 in               | Yes     |

### Construction and Dimensions

#### Cabling

| Twists       |
|--------------|
| 4.8 twist/ft |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 2.5 Ohm/1000ft        | 10 Ohm/1000ft            |

#### Capacitance

| Max. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|-----------------------------------------|---------------------------------------------------------|
|-----------------------------------------|-----------------------------------------|---------------------------------------------------------|

|          |          |             |
|----------|----------|-------------|
| 25 pF/ft | 54 pF/ft | 97.25 pF/ft |
|----------|----------|-------------|

Current

| Max. Recommended Current [A]  |
|-------------------------------|
| 14 Amps per Conductor at 25°C |

Voltage

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

Temperature Range

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 75°C           |
| Operating Temp Range: | -20°C To +75°C |

Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 36 lbs/1000ft |
| Max. Pull Tension:          | 95 lbs        |
| Min Bend Radius/Minor Axis: | 2.25 in       |

Standards

|                      |             |
|----------------------|-------------|
| NEC Articles:        | Article 760 |
| NEC/(UL) Compliance: | FPLR        |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2009-10-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

|                    |              |
|--------------------|--------------|
| UL Flammability:   | UL1666 Riser |
| CSA Flammability:  | FT4          |
| UL voltage rating: | 300 V RMS    |

Plenum/Non-Plenum

|                |        |
|----------------|--------|
| Plenum (Y/N):  | No     |
| Plenum Number: | 6100FL |

Part Number

Variants

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

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.249 Revision Date: 06-08-2020 |
|----------------------|--------------------------------------------------|

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