



**Product:** [5320FL](#) 

Fire Alarm, #18-2c BC, Shielded, FPLR

## Product Description

Fire Alarm Cable, Riser-FPLR, 2-18 AWG solid bare copper conductors with polypropylene 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         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 2               | 18 AWG | Solid     | BC - Bare Copper |

#### Insulation

| Element      | Material           | Nom. Thickness     | Nom. Insulation Diameter | Color Code |
|--------------|--------------------|--------------------|--------------------------|------------|
| Conductor(s) | PP - Polypropylene | 0.007 in (0.18 mm) | 0.055 in (1.4 mm)        | Black, Red |

#### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type    |
|-------------|-------------------------|----------|-------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (Solid) TC |

#### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      | Ripcord |
|--------------------------|--------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.147 in (3.73 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.147 in (3.73 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Inductance        | Max. Current                 |
|--------------|--------------------|-------------------------------|-------------------------------------------------|------------------------|------------------------------|
| Conductor(s) | 6.4 Ohm/1000ft     | 55 pF/ft (180 pF/m)           | 99 pF/ft (320 pF/m)                             | 0.15 µH/ft (0.49 µH/m) | 14 Amps per conductor @ 25°C |

|                                     |                               |
|-------------------------------------|-------------------------------|
| Nom Outer Shield DCR@Cond DCR1-cnvt | 17.9 Ohm/1000ft (58.7 Ohm/km) |
|-------------------------------------|-------------------------------|

#### 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. |
|-------------------|-------------------|
| 2.20 in (55.9 mm) | 2.20 in (55.9 mm) |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 44.3 lbs (20.1 kg) |
| Bulk Cable Weight: | 17 lbs/1000ft      |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor - Riser, Indoor                                                                                                    |
| Flammability / Reaction to Fire: | UL 1666 Riser, IEEE 1202 FT4                                                                                              |
| NEC / UL Compliance:             | Article 760, 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) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                           |
| Plenum Number:                   | 6320FL                                                                                                                    |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.460 Revision Date: 09-07-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #          | Color  | UPC          | Footnote |
|-----------------|--------|--------------|----------|
| 5320FL D151000  | Blue   | 612825160335 | C        |
| 5320FL D15U1000 | Blue   | 612825336969 |          |
| 5320FL 003C500  | Orange | 612825160366 |          |
| 5320FL 0021000  | Red    | 612825160359 | C        |
| 5320FL 002U1000 | Red    | 612825336976 |          |
| 5320FL 002U500  | Red    | 612825160342 |          |
| 5320FL 0071000  | Violet | 612825160397 |          |
| 5320FL 0041000  | Yellow | 612825160380 |          |
| 5320FL 004C500  | Yellow | 612825160373 |          |

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

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