



**Product:** [5322FJ](#) 

Fire Alarm, #18-4c BC, Shielded, FPL

## Product Description

Fire Alarm Cable, Rated-FPL, 4-18 AWG solid bare copper conductors with foam polyolefin insulation, overall Beldfoil® shield, PVC jacket with ripcord

## Technical Specifications

### Product Overview

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Fire Alarm, Addressable Systems, Circuits: Audio, Control, Initiating, Notification, Noisy Environment |
|------------------------|--------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 4               | 18 AWG | Solid     | BC - Bare Copper |

#### Insulation

| Element      | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code              |
|--------------|--------------------------|--------------------|--------------------------|-------------------------|
| Conductor(s) | PE - Polyethylene (Foam) | 0.015 in (0.38 mm) | 0.070 in (1.8 mm)        | Black, Red, Brown, Blue |

#### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 20 AWG (7x28) TC |

#### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter | Ripcord |
|--------------------------|--------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.033 in (0.84 mm) | 0.24 in       | Yes     |

|                                   |         |
|-----------------------------------|---------|
| Overall Cable Diameter (Nominal): | 0.24 in |
|-----------------------------------|---------|

### Electrical Characteristics

#### Electricals

| Element               | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|-----------------------|--------------------|-------------------------------|-------------------------------------------------|------------------------------|
| Conductor(s)          | 6.4 Ohm/1000ft     | 20 pF/ft (66 pF/m)            | 36 pF/ft (120 pF/m)                             | 4 Amps per Conductor at 25°C |
| Nom Outer Shield DCR: |                    | 7.1 Ohm/1000ft (23 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. |
|-----------------|-------------------|
| 3.6 in (91 mm)  | 3.6 in            |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 92.4 lbs (41.9 kg) |
| Bulk Cable Weight: | 39 lbs/1000ft      |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor                                                                       |
| Flammability / Reaction to Fire: | UL1685 UL Loading                                                            |
| NEC / UL Compliance:             | Article 760, FPL                                                             |
| 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:                   | 6322FJ                                                                       |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.322 Revision Date: 09-07-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #         | Color | UPC          |
|----------------|-------|--------------|
| 5322FJ 0021000 | Red   | 612825160595 |

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