



Product: [5502FL](#)

Fire Alarm, #22-4c BC, Shielded, FPLR

Product Description

Fire Alarm Cable, Riser-FPLR, 4-22 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         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 4               | 22 AWG | 7x30      | BC - Bare Copper |

Insulation

| Element      | Material        | Nom. Thickness     | Nom. Insulation Diameter | Color Code              |
|--------------|-----------------|--------------------|--------------------------|-------------------------|
| Conductor(s) | PO - Polyolefin | 0.008 in (0.20 mm) | 0.045 in (1.1 mm)        | Black, Red, Brown, Blue |

Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC |

Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter | Ripcord |
|--------------------------|--------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.146 in      | Yes     |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.146 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
|--------------|--------------------|-------------------------------|---|--------------------------------|
| Conductor(s) | 16.4 Ohm/1000ft    | 22.5 pF/ft (73.8 pF/m)        | 40.5 pF/ft (133 pF/m)                           | 2.2 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. |
|-------------------|-------------------|
| 2.19 in (55.6 mm) | 2.19 in           |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 41.9 lbs (19.0 kg) |
| Bulk Cable Weight: | 16 lbs/1000ft      |

Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor   |
| Flammability / Reaction to Fire: | UL1666 Riser, FT4  |
| 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:                   | 6502FL   |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.176 Revision Date: 05-05-2023 |
|----------------------|--|

Part Numbers

Variants

| Item #          | Color | UPC          |
|-----------------|-------|--------------|
| 5502FL 002U1000 | Red   | 612825163312 |

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