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1-800-Belden1



### General Description:

Fire Alarm Cable, Plenum-FPLP, 4-14 AWG solid bare copper conductors with Flamarrest® insulation, Overall Beldfoil® shield, Flamarrest® jacket with ripcord

### Usage (Overall)

Suitable Applications: Fire Protection, Alarm, Signal, Monitor/Detection, Audio Circuits, Control Circuits, Initiating Circuits, Notification Circuits

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 4            | 14  | Solid     | BC - Bare Copper   |

Total Number of Conductors: 4

#### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material                   | Wall Thickness (in.) |
|-----------------------|---------------------------------------|----------------------|
| Flamarrest®           | LS PVC - Low Smoke Polyvinyl Chloride | 0.011                |

#### Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material                        | Coverage (%) |
|-------------------------|------|--|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape w/Shorting Fold | 100          |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22  | solid     | TC - Tinned Copper            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                 | Nom. Wall Thickness (in.) |
|-------------------------|---------------------------------------|---------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride | .015                      |

Outer Jacket Ripcord: Yes

### Overall Cable

Overall Cabling Lay Length & Direction:

| Length (in.) | Twists (twist/ft) |
|--------------|-------------------|
| 3.5          | 3.4               |

Overall Cabling Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | Red   |
| 3      | Brown |
| 4      | Blue  |

Overall Nominal Diameter: 0.245 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 73 lbs/1000 ft.

Max. Recommended Pulling Tension: 212.800 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

### Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

## 6122FL Multi-Conductor - Commercial Applications

|                                       |                                |
|---------------------------------------|--------------------------------|
| NEC/(UL) Specification:               | FPLP                           |
| NEC Articles:                         | 760                            |
| EU Directive 2011/65/EU (ROHS II):    | Yes                            |
| EU CE Mark:                           | Yes                            |
| EU Directive 2000/53/EC (ELV):        | Yes                            |
| EU Directive 2002/95/EC (RoHS):       | Yes                            |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005                     |
| EU Directive 2002/96/EC (WEEE):       | Yes                            |
| EU Directive 2003/11/EC (BFR):        | Yes                            |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                            |
| MII Order #39 (China RoHS):           | Yes                            |
| Other Specification:                  | California State Fire Marshall |

### Flame Test

|                |          |
|----------------|----------|
| UL Flame Test: | NFPA 262 |
|----------------|----------|

### Plenum/Non-Plenum

|                    |        |
|--------------------|--------|
| Plenum (Y/N):      | Yes    |
| Non-Plenum Number: | 5122FL |

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

46

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

82.8

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.43

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

11.300

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

#### Max. Recommended Current:

Current

6.4 Amps per conductor @ 25°C

### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc            |
|----------------|----------|-------------|-------|-------|----------------------|
| 6122FL 0021000 | 1,000 FT | 77.000 LB   | RED   | C     | 4 #14 FLRST FS FLRST |

#### Notes:

C = CRATE REEL PUT-UP.

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