

## 6120FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled

For more Information  
please call

1-800-Belden1



### General Description:

Fire Alarm Cable, Plenum-FPLP, 2-14 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
2	14	Solid	BC - Bare Copper

**Total Number of Conductors:** 2

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.279

#### 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 (mm)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.381

**Outer Jacket Ripcord:** Yes

### Overall Cable

#### Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

**Overall Nominal Diameter:** 5.309 mm

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 59.379 Kg/Km

**Max. Recommended Pulling Tension:** 504.426 N

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Min. Bend Radius/Minor Axis: 53.340 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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: 5120FL

### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/m)

0.49215

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

282.166

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

Capacitance (pF/m)

507.899

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

7.94002

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

36.747

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

#### Max. Recommended Current:

Current

8 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6120FL 0021000	1,000 FT	45.000 LB	RED	C	2 #14 FLRST FS FLRST
6120FL 002500	500 FT	23.500 LB	RED	C	2 #14 FLRST FS FLRST

## METRIC MEASUREMENT VERSION

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**Notes:**

C = CRATE REEL PUT-UP.

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