

## 6100UL Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1

**General Description:**

Fire Alarm Cable, Plenum-FPLP, 2-14 AWG stranded bare copper conductors with Flamarrest® insulation, Flamarrest® jacket with ripcord

**Usage (Overall)**

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

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2            | 14  | 19x27     | BC - Bare Copper   |

**Total Number of Conductors:** 2

**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 Material |
|-----------------------|
| Unshielded            |

**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) |
|--------------|-------------------|
| 3.500        | 3.400             |

**Overall Cabling Color Code Chart:**

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | Red   |

**Overall Nominal Diameter:** 0.214 in.

**Mechanical Characteristics (Overall)**

|                                          |                 |
|------------------------------------------|-----------------|
| <b>Operating Temperature Range:</b>      | 0°C To +75°C    |
| <b>Bulk Cable Weight:</b>                | 35 lbs/1000 ft. |
| <b>Max. Recommended Pulling Tension:</b> | 95 lbs.         |
| <b>Min. Bend Radius/Minor Axis:</b>      | 2.125 in.       |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                           |      |
|-------------------------------------------|------|
| <b>NEC(UL) Specification:</b>             | FPLP |
| <b>NEC Articles:</b>                      | 760  |
| <b>EU Directive 2011/65/EU (ROHS II):</b> | Yes  |
| <b>EU CE Mark:</b>                        | Yes  |
| <b>EU Directive 2000/53/EC (ELV):</b>     | Yes  |

## 6100UL Multi-Conductor - Commercial Applications

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2009

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire &amp; Cable): Yes

MIL Order #39 (China RoHS): Yes

## Flame Test

UL Flame Test: NFPA 262

## Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 5100UL

## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

32.000

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.500

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

Current

14 Amps per conductor @ 25°C

## Put Ups and Colors:

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc         |
|-----------------|----------|-------------|-------|-------|-------------------|
| 6100UL 002U1000 | 1,000 FT | 36.000 LB   | RED   |       | 2 #14 FLRST FLRST |
| 6100UL 0021000  | 1,000 FT | 37.000 LB   | RED   | C     | 2 #14 FLRST FLRST |

## Notes:

C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 03-13-2013

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9