

## 5120UM Multi-Conductor - Commercial Applications - 2 Cond Cabled



For more Information  
please call

1-800-Belden1

**Description:**

14 AWG solid bare copper conductors, ceramifiable silicone insulation, FRPE (low smoke non-halogen) jacket, sequential footage marking every two feet.

**Usage (Overall)****Suitable Applications:**

Survivability, Survivability from Attach by Fire, Fire Alarm Circuit Integrity, CI, Survivability by NFPA72, Sim to MI, Similar to Mineral Insulated, FPLR-CI, Emergency Circuits, Notification Devices, Fire Pumps, 2 hour fire rating

**Physical Characteristics (Overall)****Conductor****AWG:**

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

**Insulation****Insulation Material:**

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| Silicone Rubber     | .034                 |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material               | Nom. Wall Thickness (in.) |
|-------------------------------------|---------------------------|
| FRPE - Flame Retardant Polyethylene | .045                      |

**Overall Cable****Overall Cabling Lay Length & Direction:**

| Length (in.) | Twists (ft.) |
|--------------|--------------|
| 4            | 3.0          |

**Overall Cabling Color Code Chart:**

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

**Overall Nominal Diameter:**

0.360 in.

**Mechanical Characteristics (Overall)**

**Operating Temperature Range:** -20°C To +105°C

**UL Temperature Rating:** 105°C

**Bulk Cable Weight:** 66 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 99.400 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 3.600 in.

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

**NEC/(UL) Specification:** FPLR-CI

**NEC Articles:** 760

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|             |     |
|-------------|-----|
| 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): | 01/01/2005 |
|---------------------------------------|------------|

|                                 |     |
|---------------------------------|-----|
| 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 |
|-----------------------------|-----|

**Flame Test**

|                |   |
|----------------|---|
| UL Flame Test: | UL1666 Riser, UL2196 Two Hour Circuit Integrity |
|----------------|---|

**Plenum/Non-Plenum**

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

**Electrical Characteristics (Overall)****Nom. Capacitance Conductor to Conductor:**

|                     |
|---------------------|
| Capacitance (pF/ft) |
|---------------------|

|    |
|----|
| 21 |
|----|

**Nom. Conductor DC Resistance:**

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|

|     |
|-----|
| 2.6 |
|-----|

**Max. Operating Voltage - UL:**

| Voltage   | Description            |
|-----------|------------------------|
| 300 V RMS | FPLR only applications |
| 41 V RMS  | CI applications        |

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc            |
|----------------|----------|-------------|-------|-------|----------------------|
| 5120UM 0021000 | 1,000 FT | 73.000 LB   | RED   | C     | TW PR #14 SIL FRNHPO |

**Notes:**

C = CRATE REEL PUT-UP.

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