

## 5120FN Multi-Conductor - NPLF Systems - 2 Conductors Cabled

For more Information  
please call

1-800-Belden1



### General Description:

Fire Alarm Cable, Rated-NPLF, 2-14 AWG solid bare copper conductors with PVC/Nylon insulation, Overall Beldfoil® shield, PVC jacket with ripcord

### Usage (Overall)

**Suitable Applications:** Fire Alarm, Audio Circuits, Control Circuits, Initiating Circuits, Notification Circuits, Non-Power Limited Signaling Cable

### 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 Material	Wall Thickness (in.)
PVC/Nylon - Polyvinyl Chloride/Nylon	.021

#### 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 Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.042

**Outer Jacket Ripcord:** Yes

### Overall Cable

#### Overall Cabling Lay Length & Direction:

Length (in.)	Twists (twist/ft)
3	4.0

#### Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

**Overall Nominal Diameter:** 0.303 in.

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +75°C

**UL Temperature Rating:** 75°C

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<b>Bulk Cable Weight:</b>	54.800 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	113 lbs.
<b>Min. Bend Radius/Minor Axis:</b>	3 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	NPLF
<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
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	07/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Flame Test

<b>UL Flame Test:</b>	UL1685 UL Loading
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#### Suitability

<b>Suitability - Indoor:</b>	Yes
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#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/ft)

.17

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

58.8

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

Capacitance (pF/ft)

105.8

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.500

#### Max. Operating Voltage - UL:

Voltage

150 V RMS

#### Max. Recommended Current:

Current

8 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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## 5120FN Multi-Conductor - NPLF Systems - 2 Conductors Cabled

5120FN 0021000	1,000 FT	61.000 LB	RED		2 #14 PVC/NYL FS FRPVC
5120FN 002500	500 FT	32.000 LB	RED		2 #14 PVC/NYL FS FRPVC

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