

## 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 (mm)
PVC/Nylon - Polyvinyl Chloride/Nylon	0.5334

#### 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
20	(7x28)	TC - Tinned Copper

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.0668

**Outer Jacket Ripcord:** Yes

### Overall Cable

**Overall Cabling Lay Length & Direction:**

Length (mm)	Twists (twist/m)
76.1997	13.124

**Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	Red

**Overall Nominal Diameter:** 7.696 mm

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 75°C

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Bulk Cable Weight:	81.553 Kg/Km
Max. Recommended Pulling Tension:	502.647 N
Min. Bend Radius/Minor Axis:	76.200 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	NPLF
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):	07/01/2005
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:	UL1685 UL Loading
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#### Suitability

Suitability - Indoor:	Yes
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#### Plenum/Non-Plenum

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

#### Nom. Inductance:

Inductance (µH/m)

0.55777

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

192.923

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

Capacitance (pF/m)

347.13

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

34.451

#### 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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## METRIC MEASUREMENT VERSION

### 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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