



**Product:** [5020FN](#)

Fire Alarm, #12-2c BC, Shielded, NPLF

### Product Description

Fire Alarm Cable, Rated-NPLF, 2-12 AWG solid bare copper conductors with PVC/nylon insulation, overall Beldfoil® shield, PVC jacket with ripcord

### Technical Specifications

#### Product Overview

Suitable Applications:	Fire Alarm, Non-Power Limited, Circuits: Audio, Control, Initiating, Notification, Noisy Environment
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Conductors
12	Solid	BC - Bare Copper	2

Conductor Count:	2
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##### Insulation

Material	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in

##### Color Chart

Number	Color
1	Black
2	Red

##### Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20	Solid

##### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.337 in	0.042 in	Yes

#### Construction and Dimensions

##### Cabling

Twists
3.74 twist/ft

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
1.58 Ohm/1000ft	6.9 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
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66.9 pF/ft	120.4 pF/ft
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#### Inductance

<b>Nominal Inductance</b>
0.16 µH/ft

#### Current

<b>Max. Recommended Current [A]</b>
12 Amps per Conductor at 25°C

#### Voltage

<b>UL Voltage Rating</b>
150 V RMS

#### Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-20°C To +75°C

#### Mechanical Characteristics

Bulk Cable Weight:	73.4 lbs/1000ft
Max. Pull Tension:	172 lbs
Min. Bend Radius/Minor Axis:	3.25 in

#### Standards

NEC Articles:	Article 760
NEC/(UL) Compliance:	NPLF

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Indoor:	Yes
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#### Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	150 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Related Part Numbers

#### Variants

Item #	Color	UPC
5020FN 002500	Red	612825155904

#### History

Update and Revision:	Revision Number: 0.313 Revision Date: 02-03-2025
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