



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

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

## Product Description

Fire Alarm Cable, Riser-FPLR, 2-12 AWG solid bare copper conductors with polyolefin insulation, overall Beldfoil® shield, PVC jacket with ripcord

## Technical Specifications

### Product Overview

Suitable Applications:	Fire Alarm, Monitor/Detection, 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
PP - Polypropylene	0.01 in

#### Color Chart

Number	Color
1	Black
2	Red

#### Outer Shield Material

Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20	7x28

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.243 in	0.017 in	Yes

### Construction and Dimensions

#### Cabling

Twists
4.4 twist/ft

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
1.53 Ohm/1000ft	7.5 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
71 pF/ft	128 pF/ft

## Inductance

### Nominal Inductance

0.14  $\mu$ H/ft

## Current

### Max. Recommended Current [A]

12 Amps per Conductor at 25°C

## Voltage

### UL Voltage Rating

300 V RMS

## Temperature Range

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

## Mechanical Characteristics

Bulk Cable Weight:	56.8 lbs/1000ft
Max. Pull Tension:	172 lbs
Min Bend Radius/Minor Axis:	2.5 in

## Standards

NEC Articles:	Article 760
NEC/(UL) Compliance:	FPLR
Other Compliance:	California State Fire Marshall

## 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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

## Suitability

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

UL Flammability:	UL1666 Riser
CSA Flammability:	FT4
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	6020FL

## Part Number

### Variants

Item #	Color	UPC
5020FL 0021000	Red	612825155881

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision:	Revision Number: 0.238 Revision Date: 09-30-2020
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