




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

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

## Product Description

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

## Technical Specifications

### Product Overview

Suitable Applications:	Fire Alarm, Addressable Systems, 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	Material Trade Name	Nominal Wall Thickness
PE - Polyethylene (Foam)	Datalene®	0.02 in

#### Color Chart

Number	Color
1	Black
2	Red

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.317 in	0.033 in	Yes

### Construction and Dimensions

#### Cabling

Twists
3.4 twist/ft

### Electrical Characteristics

#### Conductor DCR

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

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
36 pF/ft	64.8 pF/ft

Inductance

Nominal Inductance
0.16 µH/ft

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. PSACRF (PSELFEXT) [dB]	Min. SRL (Structural Return Loss)	Min. TCL [dB]
24.576 MHz	24.6 dB/100m	24.8 dB	24.7 dB	24.6 dB

Current

Max. Recommended Current [A]
10 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:	64.4 lbs/1000ft
Max. Pull Tension:	172 lbs
Min Bend Radius/Minor Axis:	3.25 in

Standards

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

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):	2004-01-01
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:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC
5020FJ 0021000	Red	612825155874

History

Update and Revision:	Revision Number: 0.249 Revision Date: 06-24-2020
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