



**Product:** [5220FJ](#)

Fire Alarm, #16-2c BC, Shielded, FPL

## Product Description

Fire Alarm Cable, Rated-FPL, 2-16 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
16	Solid	BC - Bare Copper	2

Conductor Count:	2
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#### Insulation

Material	Material Trade Name	Nominal Wall Thickness
PE - Polyethylene (Foam)	Datalene®	0.015 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	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20	Solid

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.235 in	0.033 in	Yes

### Construction and Dimensions

#### Cabling

Twists
5.3 twist/ft

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
3.9 Ohm/1000ft	15.25 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
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31.5 pF/ft	56.5 pF/ft
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#### Inductance

<b>Nominal Inductance</b>
0.17 µH/ft

#### Current

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

#### Voltage

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

#### Temperature Range

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

#### Mechanical Characteristics

Bulk Cable Weight:	28.9 lbs/1000ft
Max. Pull Tension:	76.4 lbs
Min Bend Radius/Minor Axis:	2.25 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

#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	6220FJ

#### Part Number

#### Variants

Item #	Color	UPC
5220FJ 0021000	Red	612825158288
5220FJ 002500	Red	612825158295
5220FJ 002U1000	Red	612825158271

#### History

Update and Revision:	Revision Number: 0.240 Revision Date: 09-30-2020
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