

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

## 5220FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled



For more Information  
please call

1-800-Belden1



### General Description:

Fire Alarm Cable, Riser-FPLR, 2-16 AWG solid bare copper conductors with polyolefin insulation, Overall Beldfoil® shield, PVC jacket with ripcord

### Usage (Overall)

Suitable Applications:	Fire Protection, Alarm, Signal, Monitor/Detection, Audio Circuits, Control Circuits, Initiating Circuits, Notification Circuits
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### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	16	Solid	BC - Bare Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PP - Polypropylene	0.007

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Outer Shield Material	Coverage (%)
Beldfoil®	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	Solid	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.017

Outer Jacket Ripcord: Yes

### Overall Cable

Overall Cabling Lay Length & Direction:

Length (in.)	Twists (twist/ft)
2.500	4.800

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter: 0.170 in.

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 24 lbs/1000 ft.

Max. Recommended Pulling Tension: 75 lbs.

Min. Bend Radius/Minor Axis: 1.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: FPLR

NEC Articles: 760

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### 5220FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled

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):	04/01/2005
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:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

#### Suitability

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

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

#### Electrical Characteristics (Overall)

##### Nom. Inductance:

Inductance (μH/ft)
0.140

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
65.500

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

Capacitance (pF/ft)
118.000

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.9

##### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.900

##### Max. Operating Voltage - UL:

Voltage
300 V RMS

##### Max. Recommended Current:

Description	Current
10C Temperature Rise	6.3 Amps per conductor @ 25°C

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5220FL D151000	1,000 FT	25.000 LB	BLUE		2 #16 PP FS FRPVC
5220FL 0021000	1,000 FT	25.000 LB	RED	C	2 #16 PP FS FRPVC
5220FL 0091000	1,000 FT	25.000 LB	WHITE		2 #16 PP FS FRPVC

##### Notes:

C = CRATE REEL PUT-UP.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.