

## 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

### 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 (mm)
PP - Polypropylene	0.178

#### 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 (mm)
PVC - Polyvinyl Chloride	0.432

**Outer Jacket Ripcord:** Yes

### Overall Cable

**Overall Cabling Lay Length & Direction:**

Length (mm)	Twists (twist/m)
63.500	15.7488

**Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	Red

**Overall Nominal Diameter:** 4.318 mm

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 75°C

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Bulk Cable Weight:	35.717 Kg/Km
Max. Recommended Pulling Tension:	333.615 N
Min. Bend Radius/Minor Axis:	44.450 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	FPLR
NEC Articles:	760
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/m)	0.459
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#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)	214.906
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#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)	387.158
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#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	12.7959
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#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)	55.449
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#### Max. Operating Voltage - UL:

Voltage	300 V RMS
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#### Max. Recommended Current:

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

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

### 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 002A1000	1,000 FT	27.000 LB	RED		2 #16 PP FS FRPVC
5220FL 002Z1000	1,000 FT	27.000 LB	RED		2 #16 PO FS FRPVC
5220FL 0021000	1,000 FT	25.000 LB	RED	C	2 #16 PP FS FRPVC
5220FL 004U1000	1,000 FT	26.000 LB	YELLOW		2 #16 PP FS FRPVC
5220FL 0041000	1,000 FT	25.000 LB	YELLOW		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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