

5020FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled



For more Information
please call

1-800-Belden1

**General Description:**

Fire Alarm Cable, Riser-FPLR, 2-12 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	12	Solid	BC - Bare Copper

Total Number of Conductors:

2

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.254

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
20	(7x28)	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)
69.850	14.4364

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter:

6.172 mm

Mechanical Characteristics (Overall)**Operating Temperature Range:**

-20°C To +75°C

UL Temperature Rating:

75°C

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Bulk Cable Weight:	84.530 Kg/Km
Max. Recommended Pulling Tension:	765.090 N
Min. Bend Radius/Minor Axis:	63.500 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
Other Specification:	California State Fire Marshall

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:	6020FL

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (μH/m)
0.459

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
232.951

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
419.968

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
5.01993

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
24.608

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current

METRIC MEASUREMENT VERSION

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12 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5020FL 0021000	1,000 FT	59.000 LB	RED	C	2 #12 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

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