

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



For more Information  
please call

1-800-Belden1

**Description:**

12 AWG bare copper conductors, PP insulation, conductors cabled together, Beldfoil® shield and drain wire, PVC jacket with ripcord, sequential footage marking every two feet.

**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	7	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 &amp; Environmental Programs

NEC/(UL) Specification:	FPLR
NEC Articles:	760
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

## 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 &amp; 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
12 Amps per conductor @ 25°C

## Put Ups and Colors:

## METRIC MEASUREMENT VERSION

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5020FL 0021000	305 MT	27.216 KG	RED	C	2 #12 PP FS FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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