

## 5120FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled



For more Information  
please call

1-800-Belden1



### Description:

14 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	14	Solid	BC - Bare Copper

#### 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
22	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 Cabling

**Overall Cabling Lay Length & Direction:**

Length (mm)	Twists (m.)
63.49975	1.46304

**Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	Red

**Overall Nominal Diameter:** 5.309 mm

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 59.528 Kg/Km

## 5120FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled

Max. Recommended Pulling Tension:	502.647 N
Min. Bend Radius (Install)/Minor Axis:	50.800 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & 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:	6120FL

### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/m)	0.49215
-------------------	---------

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)	196.860
--------------------	---------

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

Capacitance (pF/m)	354.348
--------------------	---------

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	7.97283
---------------------	---------

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)	36.747
---------------------	--------

#### Max. Operating Voltage - UL:

Voltage	300 V RMS
---------	-----------

#### Max. Recommended Current:

Current	8 Amps per conductor @ 25°C
---------	-----------------------------

### Related Documents:

No related documents are available for this product

## 5120FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5120FL D151000	305 MT	16.783 KG	BLUE		2 #14 PP FS FRPVC
5120FL 0021000	305 MT	16.783 KG	RED	C	2 #14 PP FS FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 07-24-2009

© 2011 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

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