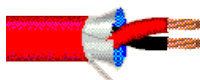


## 5100FM Multi-Conductor - Commercial Applications - 2 Cond Cabled



For more Information  
please call

1-800-Belden1

**General Description:**

14 AWG stranded (7x22) bare copper conductors, ceramifiable silicone insulation, Beldfoil® shield, FRPE (low smoke non-halogen) jacket, sequential footage marking every two feet.

**Usage (Overall)****Suitable Applications:**

Survivability, Survivability from Attack by Fire, Fire Alarm Circuit Integrity, CI, Survivability by NFPA72, Sim to MI, Similar to Mineral Insulated, FPLR-CI, Emergency Circuits, Notification Devices, Fire Pumps, 2 hour fire rating

**Physical Characteristics (Overall)****Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
2	14	7x22	BC - Bare Copper

Total Number of Conductors:

2

**Insulation****Insulation Material:**

Insulation Material	Wall Thickness (in.)
Silicone Rubber	.034

**Outer Shield****Outer Shield Material:**

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

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
16	7x24	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
FRPE - Flame Retardant Polyethylene	.045

**Overall Cable****Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	Red

Overall Nominal Diameter:

0.384 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	84 lbs/1000 ft.
Max. Recommended Pulling Tension:	109.200 lbs.
Min. Bend Radius/Minor Axis:	4 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	FPLR-CI
NEC Articles:	760
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

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EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
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 Riser, UL2196 Two Hour Circuit Integrity
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

33

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.6

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4

## Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	FPLR only applications
41 V RMS	CI applications

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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Revision Number: 2    Revision Date: 10-15-2012

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