

## 5100FM Non-Paired - Commercial Applications, Addressable Systems - 2 Cond Cabled

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p><b>Related Documents : New Generation - Fire Alarm Cables.pdf</b></p>
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### Description:

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

### SUITABLE APPLICATIONS:

Suitable Applications	Survivability, Survivability from Attach 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
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### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Conductors	2
Total Number of Conductors	2
AWG	14
Stranding	7x22
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material	Silicone Rubber
Nom. Insulation Wall Thickness	.034 in.

#### OVERALL CABLING:

Overall Cabling Lay Length	4.25 in.
Overall Cabling Twists/ft.	2.75

Overall Cabling Color Code Chart :

Number	Color	Number	Color
1	Black	2	Red

#### OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape
Outer Shield Material	Polyester Tape-Aluminum Foil

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Outer Shield % Coverage	100 %
Outer Shield Drain Wire AWG	16
Outer Shield Drain Wire Stranding	7x24
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

### OUTER JACKET:

Outer Jacket Material	FRPE - Flame Retardant Polyethylene
Outer Jacket Nominal Wall Thickness	.045 in.

### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.384 in.
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +105°C
UL Temperature Rating	105°C
Bulk Cable Weight	84 lbs/1000 ft.
Max. Recommended Pulling Tension	109.2 lbs.
Min. Bend Radius (Install)	3.8 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	FPLR-CI
NEC Articles	760
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005

### FLAME TEST:

UL Flame Test	UL1666 Riser, UL2196 Two Hour Circuit Integrity
IEC Flame Test	603331

### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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### ELECTRICAL CHARACTERISTICS:

Nom. Capacitance Conductor to Conductor @ 1 KHz	33 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	2.6 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	4 Ohms/1000 ft
Max. Operating Voltage - UL	300 V RMS

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
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## **5100FM Non-Paired - Commercial Applications, Addressable Systems - 2 Cond Cabled**

5100FM 0021000	FS PR #14 SIL FRNHPO	1000	93	RED	C
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C = CRATE REEL PUT-UP.

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