

## 5322FM Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1

**General Description:**

Circuit Integrity Fire Alarm, Rated-FPLR-CI, 4-18 AWG solid bare copper conductors with silicone insulation, Beldfoil® shield, LSZH jacket

**Usage (Overall)****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

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

# Conductors	AWG	Stranding	Conductor Material
4	18	Solid	BC - Bare Copper

Total Number of Conductors:

4

**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
20	7x28	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#1
2	Black#2
3	Black#3
4	Black#4

Overall Nominal Diameter:

0.358 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	70 lbs/1000 ft.
Max. Recommended Pulling Tension:	78.400 lbs.
Min. Bend Radius/Minor Axis:	3.750 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

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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): 01/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

## Flame Test

UL Flame Test: UL1666 Riser, UL2196 Two Hour Circuit Integrity

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

27

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.86

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9

## 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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