

# Fire alarm cable



## Type FPLR cable

Type FPLR power-limited fire alarm riser cable is suitable for vertical runs in shafts or penetrating multiple floors. It features fire-resistant properties that prevent flame propagation between floors.

Tested to UL 1424 and UL 1666 (Vertical riser flame propagation).

## Type FPL cable

Type FPL power-limited fire alarm cable is suitable for general-purpose use in fire alarm systems. It resists fire spread but may not be installed in risers, ducts, or plenums unless enclosed in conduit.

Tested to UL 1424 and UL 1685 (Vertical flame spread and smoke release test).

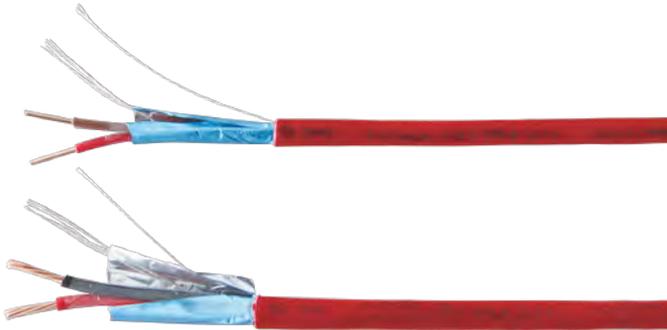
## Type FPLP cable

Type FPLP power-limited fire alarm plenum cable is suitable for direct installation in ducts, plenums, and other air-handling spaces. It offers excellent fire resistance and low smoke emission.

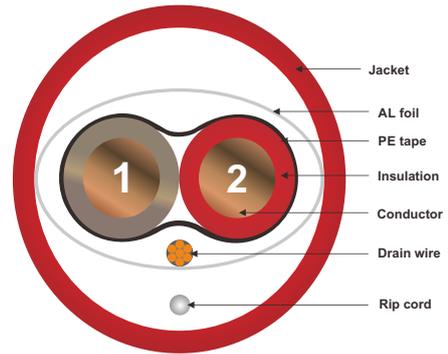
Tested to UL 1424 and NFPA 262 (Steiner Tunnel) for flame spread and smoke density.

Cable type	Type FPLR	Type FPL	Type FPLP
<b>Standard</b>	UL 1424 / NEC Article 760 / UL 1666	UL 1424 / NEC Article 760 / UL 1685	UL 1424 / NEC Article 760 / NFPA 262
<b>Cable substitution</b>	CL2R / CL3R (NEC 725), CMR (NEC 800)	CL2 / CL3 (NEC 725), CMG / CM (NEC 800)	CL2P / CL3P (NEC 725), CMP (NEC 800)
<b>Flame Exposure test</b>	UL 1666 (Riser): Flame propagation height < 12 ft; temperature ≤ 454.4°C (850°F) at 12 ft height.	UL 1685 (Vertical Tray): Char height < 8 ft. UL 1685 / CSA C22.2 No. 0.3 (FT4 / IEEE 1202): Char length ≤ 1.5 m (from burner face).	NFPA 262 (Plenum): Max peak optical density ≤ 0.5; max average optical density ≤ 0.15; max flame spread ≤ 5 ft.
<b>Temperature rating</b>	-20°C to 75°C (Standard), with higher temperature options available for Type FPLP		
<b>Voltage rating</b>	300V		
<b>Packaging</b>	1000 feet (305m) per reel, or customized length		
<b>Application</b>	Circuits controlled and powered by the fire alarm system per NEC Article 760, including detection, alarm/notification, elevator capture/shutdown, door release, smoke/fire doors and damper control, fan shutdown, and other building safety functions.		

# European gauge UL fire alarm cable (FPLR & FPL)



- Certificate: UL Listed
- Standard: UL 1424 / NEC Article 760
- Temperature: -20°C to 75°C
- Voltage: 300 V
- Compliance: FPLR/CMR/CL3R, flame test UL 1666  
FPL/CM/CMG/CL3, flame test UL 1685  
or CSA FT4/IEEE 1202
- Application: Riser fire alarm wiring  
General purpose fire alarm wiring



## Main parts and material

<b>Conductor</b>	Multiconductor, solid or stranded bare copper, soft-annealed as ASTM B3	<b>Insulation (Dielectric)</b>	Flame retardant PVC, color red & brown (Solid), red & black (Stranded), etc.
<b>Shield</b>	PE tape + aluminum foil	<b>Drain wire (Earth wire)</b>	Tinned copper, 7 x stranded 0.2mm dia.
<b>Rip cord</b>	150D Nylon, white	<b>Jacket</b>	Flame retardant PVC, color red

## Available size (Solid conductor)

Size	Conductor			Max DCR 20°C, Ω/km	Insulation THK mm	Jacket THK mm	Cable OD mm	Ref. No.
	Type	Nominal dia (mm)	Section (mm <sup>2</sup> )					
1.5 x 2C	Solid	1.38 x 2C	1.50	12.1	0.50	0.85	6.60	C0101
2.5 x 2C	Solid	1.78 x 2C	2.50	7.41	0.50	0.85	7.40	C0102

## Available size (Stranded conductor)

Size	Conductor			Max DCR 20°C, Ω/km	Insulation THK mm	Jacket THK mm	Cable OD mm	Ref. No.
	Type	Nominal dia (mm)	Section (mm <sup>2</sup> )					
1.5 x 2C	7 stranded	1.56 x 2C	1.49	11.7	0.50	0.85	6.70	C0111
2.5 x 2C	7 stranded	2.01 x 2C	2.47	7.04	0.50	0.85	7.50	C0112