

Fire alarm cable



Type FPLR cable

Type FPLR power-limited fire alarm riser cable is suitable for use in a vertical run in a shaft or to penetrate one or more floors. The cable has fire-resistant characteristics capable of preventing fire travel from floor to floor.

Type FPL cable

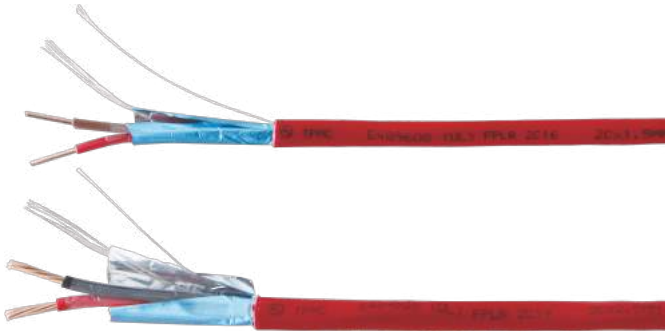
Type FPL power-limited fire alarm cable is suitable for general purpose fire alarm use. The cable is fire resistant to the spread of fire. But it doesn't include installation in riser, ducts and plenums unless the cable is installed in conduit.

Type FPLP cable

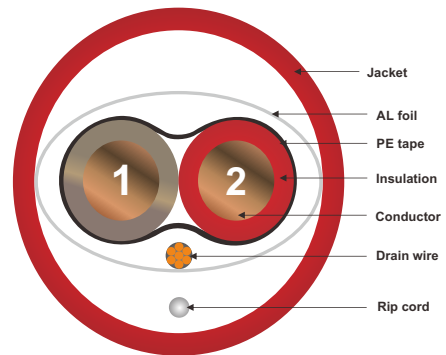
Type FPLP power-limited fire alarm plenum cable is suitable for direct use in ducts, plenums, and other space used for environmental air. The cable has adequate fire-resistant and low smoke-producing characteristics.

Cable type	Type FPLR	Type FPL	Type FPLP
Standard	UL 1424 / NEC Article 760 / UL 1666	UL 1424 / NEC Article 760 / UL 1685	UL 1424 / NEC Article 760 / NFPA 262
Cable substitution	CL2R / CL3R (NEC 725), CMR (NEC 800)	CL2 / CL3 (NEC 725), CMG / CM (NEC 800)	CL2P / CL3P (NEC 725), CMP (NEC 800)
Flame Exposure test	UL 1666: The flame-propagation height is less than 12 ft, and temperatures are 454.4°C or less at a height of 12 ft.	UL 1685: Char height is less than 8 ft, UL 1685/CSA C22.2 No. 0.3 (FT4/IEEE 1202): Char length shall not exceed 1.5m	NFPA 262: a max peak optical density of 0.5, a max average optical density of 0.15, and a max flame spread distance of 5 ft.
Voltage rating	300V		
Temperature rating	-20°C to 75°C		
Packaging	1000 feet (305m) per reel, or customized length		
Application	Circuits controlled and powered by the fire alarm system, including circuits for the control of building systems safety functions (detection, alarm, notification), elevator capture, elevator shutdown, door release, smoke doors and damper control, fire doors and damper control and fan shutdown, etc. (FPLR and FPL are not for plenum use, and FPL is not for riser use).		

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

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

Available size (Solid conductor)

Size	Conductor			Max DCR	Insulation THK	Jacket THK	Cable OD	Ref. No.
	Type	Nominal dia (mm)	Section (mm ²)	20°C, Ω/km	mm	mm	mm	
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	Insulation THK	Jacket THK	Cable OD	Ref. No.
	Type	Nominal dia (mm)	Section (mm ²)	20°C, Ω/km	mm	mm	mm	
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