

Fire Resistant Power Cable (Mica Tape, LSZH, IEC 60331 / BS 6387)



Farwalk's Fire Resistant (FR) Cables are the ultimate electrical lifeline for critical infrastructure. Engineered with high-performance mica glass tape fire barriers and Low Smoke Zero Halogen (LSZH) jacketing, these cables are designed to survive catastrophic fires (up to 950°C) while maintaining continuous power to life-safety equipment, ensuring safe evacuation and active firefighting operations.

Applications

The mandatory choice for all critical life-safety circuits in commercial, public, and high-rise buildings. Applications include: Emergency lighting systems, fire alarm networks, smoke extraction fans, sprinkler pumps, and public address systems in hospitals, airports, subway tunnels, and shopping malls.

Description

Manufactured to the highest global fire survival standards. The core features Class 2 stranded copper conductors wrapped tightly with fire-resistant Mica Glass Tape. This is insulated with XLPE for high thermal capacity. The entire assembly is sheathed in a specialized LSZH (Low Smoke Zero Halogen) compound, eliminating toxic gas emissions during combustion.

Specifications

- **Voltage Rating: 0.6/1kV**
- **Fire Survival: IEC 60331, BS 6387 (Category CWZ)**
- **Flame Retardance: IEC 60332-1, IEC 60332-3-24**
- **Halogen Free: IEC 60754-1/2**
- **Low Smoke: IEC 61034-1/2**
- **Fire Barrier: Mica Glass Tape**

Farwalk Cable — Fire Resistant Power Cable

Complete Technical Tables

4-Core Fire Resistant, 0.6/1kV

Size (mm ²)	Approx. OD (mm)	Approx. Weight (kg/km)	Current Rating @ 30° C (A)	Max. Resistance (Ω/km)
4 x 1.5	13.5	230	23	12.1
4 x 2.5	14.8	295	31	7.41
4 x 4	16.2	380	42	4.61
4 x 6	17.5	485	54	3.08
4 x 10	19.8	720	75	1.83
4 x 16	22.5	1050	100	1.15
4 x 25	26.5	1580	135	0.727
4 x 35	29.8	2050	165	0.524
4 x 50	34.5	2850	205	0.387