

LPCB fire resistant cable



LPCB-approved fire resistant cable is engineered to maintain circuit integrity and continue functioning reliably for a specified duration (typically 30, 60, or 120 minutes) even when exposed to intense fire conditions.

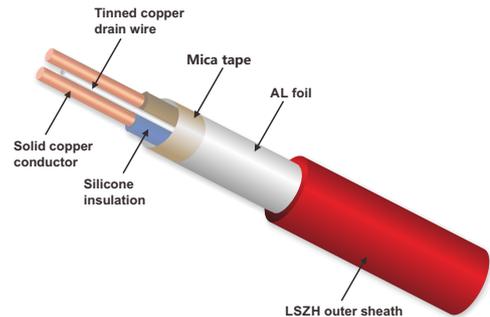
Certified by the LPCB to rigorous UK standards such as BS 6387 (CWZ), BS EN 50200, and BS 8434, it ensures critical systems remain operational during emergencies.

This provides the highest level of safety in fire detection, alarm, emergency lighting, voice evacuation, and building safety applications, helping to facilitate safe evacuation, support firefighting efforts, and protect life and property.

Cable type	Fire resistant cable, PH 30
Design	<ol style="list-style-type: none"> The complete cable has a duration of survival of ≥ 30 min when tested as BS EN 50200, class PH 30. The complete cable meets the 30 min survival time when tested as BS EN 50200 Annex E.
Fire resistance test	BS EN 50200: 2015 PH 30: 30 min to flame at $\geq 830^{\circ}\text{C}$ and mechanical shock to impact every 5 min
	BS EN 50200: 2015 Annex E 30 min: 15 min to fire at $\geq 830^{\circ}\text{C}$ and impact, followed by extra 15 min of fire, impact and water spray
	BS EN 60332-1-2:2004 meet flame propagation
	BS 6387:2013 Category CWZ: Category C, 3 hours to flame at 950°C . Category W, 15 min to flame at 650°C , and further 15 min water spray and also continue the flame. Category Z, 15 min to flame at 950°C , together with mechanical shock every 30s
Smoke emission test	BS EN 61034-2: 2005 The smoke generated shall result in transmittance $\geq 80\%$
Halogen acid gas test	BS EN 60754-1: 2014 $< 0.5\%$ HCl for the outer covering, binder tape & insulation
Packaging	500m per reel, or customized length
Application	For circuit integrity in fire conditions (30-minute survival, PH30 rating), including critical fire alarm systems, emergency lighting circuits, emergency voice/alarm communication systems, and other life-safety applications to enable safe building evacuation and emergency response.

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- Certificate: LPCB approved
- Standard: EN 60332 / EN 61034 / EN 60754
- Temperature: Fixed Installation, -40°C to 90°C
Fire Resistance, PH 30
(30 min at 842°C flame)
- Voltage: 300 V / 500 V
- Compliance: PH 30, fire resistance test BS EN 50200
Category CWZ, BS 6387:2013
- Application: Fire resistant wiring



Main parts and material

Conductor	Multicore, solid bare copper, class 1 as BS EN 60228	Insulation (Dielectric)	Fire resistant silicone rubber, EI 2 type as BS EN 50363-1, Color brown & blue (2C). Color brown, blue, black & grey (4C)
Binding (Wrapping)	Mica tape	Screen (Shield)	Aluminum foil, or AL/polyester tape
Drain wire (Earth wire)	Tinned copper, class 1 as BS EN 60228	Sheath	LSZH (Low smoke zero halogen), type LTS 3 as BS 7655-6.1, color red

Available size

Size	Conductor			Max DCR 20°C, Ω/km	Insulation THK mm	Sheath THK mm	Cable OD mm	Min bending radius	Ref. No.
	Type	Nominal dia (mm)	Section (mm²)						
1.0 x 2C	Solid	1.13 x 2C	1.0	18.1	0.6	0.6	6.6	6 x dia.	C0601
1.5 x 2C	Solid	1.38 x 2C	1.5	12.1	0.7	0.7	7.2	6 x dia.	C0602
1.5 x 4C	Solid	1.38 x 4C	1.5	12.1	0.7	1.0	8.5	6 x dia.	C0603
2.5 x 2C	Solid	1.78 x 2C	2.5	7.41	0.8	0.7	7.8	6 x dia.	C0604