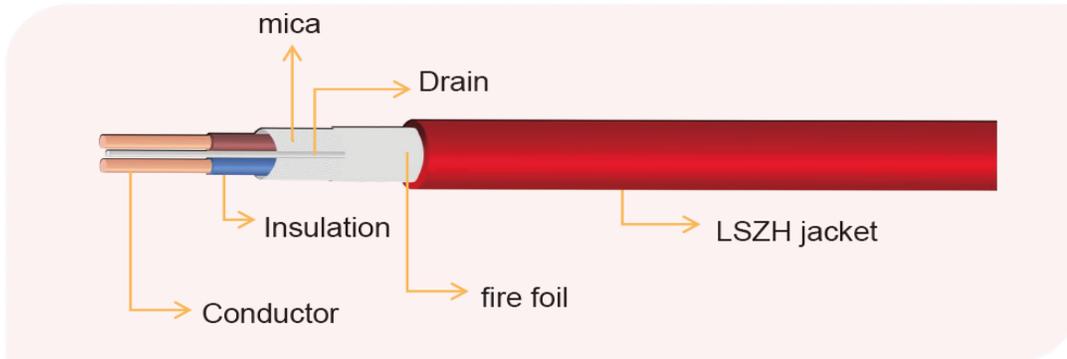




FIRE RESISTANT CABLE



2 cores: ●●
3 cores: ●●●
4 cores: ●●●●

Advantage:

- ❖ Low smoke, no halogen, fire retardant, fire resistant, environmentally friendly
- ❖ Low smoke in fire, no halogen, which reduces damage to equipment and humans
- ❖ High retardance to fire, self-extinguishing
- ❖ Long operational life span, equal to structures' life span
- ❖ Higher resistance to electromagnetic interference
- ❖ Superior earth continuity (the bare CPC is placed between two metallic tapes)
- ❖ Enhanced resistance to cable kinks (subsequently protecting cable performance)
- ❖ Extremely robust/durable design (due to increased tape numbers and overlap)
- ❖ Improved data transmission (due to twisted cores and additional screening)



Product Property:

- ❖ Conductor: Solid Bare Copper, Class 1
- ❖ Insulation: 200°C Silicone
- ❖ Binding Tape: Compound Mica
- ❖ Drain Wire: $\geq 0.5\text{mm}^2$ Tinned Copper
- ❖ Shielding: Fire Foil
- ❖ Sheath: 90°C LSZH Polyolefin Red, White, or Black Color
- ❖ Insulation at 250-300°C, Oxygen Index $\geq 28\%$
- ❖ Sheath at 250-300°C, Oxygen Index $\geq 28\%$
- ❖ Hydracid $\leq 5\text{mg/g}$, PH value ≤ 4.3 , comply with corrosive and acid gas (EN 60754-1:2014)
- ❖ Transmittance $> 80\%$, comply with low smoke density (EN 61034-2:2005+A2:2020)
- ❖ Physical and mechanical properties: insulation tensile strength 25.0 MPa, elongation at break $\geq 200\%$, sheath tensile strength ≥ 10.0 MPa, elongation at break $\geq 100\%$
- ❖ Min bend radius: 6 x D
- ❖ Operating voltage: 300/500V
- ❖ Testing voltage: 2000V
- ❖ Operating temperature: -40°C + 90°C

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- ❖ Fire retardance compliant to IEC 60331-21; IEC 60332-1-2:2004, BS6387:2013 (Category CWZ)
- ❖ Fire test alone: 950°C, 180 mins = C
- ❖ Fire test with water: 650°C, 15 mins, then apply fire and water together, 15 mins = W
- ❖ Fire test with mechanical shock: 950°C, 15 min = Z
- ❖ Fire resistance compliant to BS EN50200:2015: PH30 & PH120
- ❖ Fire and mechanical shock: 15 mins, 830°C + Fire and mechanical shock with water spray: 15 mins, 830°C EN 50200:2015 Annex E (30 mins)

Overview:

Fire-resistant cables are suitable for tall buildings, entertainment venues, and many high-quality and high-demand security construction projects. They are used in fire protection systems for fire elevators, fire pumps, fire alarms, smoke exhaust systems, emergency lighting, fire hazard areas, high-temperature applications, and special requirements on power supply lines for safe facilities, etc.

Parameter:

Item Structure	Conductor	Insulation	Diameter	Sheath	Overall diameter (mm)		Resistance of conductor at 20°C:Ω/KM
					Min	Max	
2c 1.0+E	1/1.13mm	Silicone	2.2	LSZH	7.20	8.20	18.10
3c 1.0+E	1/1.13mm	Silicone	2.2	LSZH	8.50	9.50	18.10
4c 1.0+E	1/1.13mm	Silicone	2.2	LSZH	9.50	10.50	18.10
2c 1.5+E	1/1.38mm	Silicone	2.55	LSZH	7.20	8.20	12.10
3c 1.5+E	1/1.38mm	Silicone	2.55	LSZH	8.50	9.50	12.10
4c 1.5+E	1/1.38mm	Silicone	2.55	LSZH	10.50	11.50	12.10
2c 2.5+E	1/1.78mm	Silicone	3.2	LSZH	8.00	9.00	7.41
3c 2.5+E	1/1.78mm	Silicone	3.2	LSZH	9.50	10.50	7.41
4c 2.5+E	1/1.78mm	Silicone	3.2	LSZH	11.50	12.50	7.41



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