FireKab LIH(St)CH FE180 PH120



Areas of Use

FireKab fire resistant cables are used for fire alarm systems, power supply or control of equipment that needs to function during a fire such as warning, emergency lighting, evacuation and monitor systems. The place of usage is intelligent or semi-intelligent buildings where dense human population or valuable goods are found. These can be hospitals, cinemas, theatres, schools, shopping centers, airports, factories, etc. FireKab products have low smoke density, are halogen-free and they don't emit poisonous gases.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: Class 2)
Insulation	Fire Resistant Silicon Rubber (EN 50363-1, BS 7655 EI2)
Core Colors	DIN 47100 (4 cores colors, white, yellow, brown, green, for more than 5 cores white core-black numbered)
Lay-up	Cores are stranded in layers
Flame Barrier	Fiber Glass Tape
1. Screen	Al-PET Foil (100% Coverage)
2. Screen	Tinned Copper Wire Braid (50% Coverage)
Outer Sheath	HFFR (EN 50290-2-27), RAL 2004 - Orange (other colors upon request)
Reference Standards	TS 13734

Technical Properties

Operating Voltage	300 V / 500 V
Test Voltage	2000 V
Conductor Resistance	0.50 mm² - ≤39 Ω/km; 0.75 mm² - ≤26 Ω/km; 1.00 mm² - ≤19.5 Ω/km; 1.50 mm² - ≤13.3 Ω/km; 2.50 mm² - ≤7.98 Ω/km
Insulation Resistance	>200 M.Ωxkm
Flame Retardancy	IEC/EN 60332-1, IEC/EN 60332-3-24
Fire Resistance	IEC 60331-21, EN 50200 PH120
Smoke Density	IEC/EN 61034-2
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Min. Bending Radius	Fixed: 7.5 x Cable Diameter, Flexible: 15 x Cable Diameter
Temperature Range	-30 °C.....+70 °C, Flexible: -5 °C .....+60 °C

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x0.5	5.0	16	39
3x0.5	5.3	21	47

4x0.5	5.7	26	57
5x0.5	6.3	31	72
7x0.5	6.9	42	88
10x0.5	8.9	58	128
2x0.75	5.6	21	49
3x0.75	5.9	28	60
4x0.75	6.4	36	73
5x0.75	7.1	44	93
7x0.75	7.8	58	114
10x0.75	10.0	81	165
2x1	6.0	26	57
3x1	6.2	35	70
4x1	6.8	46	87
5x1	7.5	56	110
7x1	8.3	74	136
10x1	10.7	104	197
2x1.5	7.0	36	78
3x1.5	7.4	51	98
4x1.5	8.2	65	124
5x1.5	9.0	79	157
7x1.5	9.9	106	195
10x1.5	12.8	150	285

22.11.2026 19:17

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