

## FireKab LIHCH 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

<b>Conductor</b>	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm <sup>2</sup> : Class 2)
<b>Insulation</b>	Fire Resistant Silicon Rubber (EN 50363-1, BS 7655 E12)
<b>Core Colors</b>	DIN 47100 (4 cores colors, white, yellow, brown, green, for more than 5 cores white core-black numbered)
<b>Lay-up</b>	Cores are stranded in layers
<b>Flame Barrier</b>	Fiber Glass Tape
<b>Screen</b>	Tinned Copper Wire Braid
<b>Outer Sheath</b>	HFFR (EN 50290-2-27), RAL 2004 - Orange (other colors upon request)
<b>Reference Standards</b>	TS 13734

### Technical Properties

<b>Operating Voltage</b>	300 V / 500 V
<b>Test Voltage</b>	2000 V
<b>Conductor Resistance</b>	0.50 mm <sup>2</sup> - ≤39 Ω/km; 0.75 mm <sup>2</sup> - ≤26 Ω/km; 1.00 mm <sup>2</sup> - ≤19.5 Ω/km; 1.50 mm <sup>2</sup> - ≤13.3 Ω/km; 2.50 mm <sup>2</sup> - ≤7.98 Ω/km
<b>Insulation Resistance</b>	>200 M.Ωxkm
<b>Flame Retardancy</b>	IEC/EN 60332-1, IEC/EN 60332-3-24
<b>Fire Resistance</b>	IEC 60331-21, EN 50200 PH120
<b>Smoke Density</b>	IEC/EN 61034-2
<b>Amount of Halogen Acid Gas</b>	IEC/EN 60754-1
<b>Corrosive Gases Measurement</b>	IEC/EN 60754-2
<b>Min. Bending Radius</b>	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter
<b>Temperature Range</b>	-30 °C.....+70 °C, Flexible: -5 °C .....+60 °C

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x0.5	5.0	17	40
3x0.5	5.3	22	48
4x0.5	5.7	28	57

5x0.5	6.3	33	73
7x0.5	6.9	43	88
10x0.5	8.9	59	129
2x0.75	5.6	23	49
3x0.75	5.8	30	59
4x0.75	6.4	37	74
5x0.75	7.1	45	94
7x0.75	7.8	59	115
10x0.75	10.0	83	167
2x1	6.0	28	58
3x1	6.2	37	71
4x1	6.8	46	88
5x1	7.5	58	111
7x1	8.3	76	137
10x1	10.7	108	198
2x1.5	7.0	38	79
3x1.5	7.4	52	99
4x1.5	8.2	67	125
5x1.5	9.0	82	158
7x1.5	9.9	111	196
10x1.5	12.8	155	287

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