

## FireKab LIH(St)H 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>	Al-PET Foil + Stranded Tinned Copper Drain Wire
<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: 7.5 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	4.7	12	34
3x0.5	4.8	16	41
4x0.5	5.4	20	51
5x0.5	6.0	25	66

7x0.5	6.5	34	78
10x0.5	8.5	43	114
2x0.75	5.2	19	44
3x0.75	5.5	25	55
4x0.75	6.1	32	69
5x0.75	6.7	38	87
7x0.75	7.4	52	108
10x0.75	9.7	72	156
2x1	5.5	23	52
3x1	5.8	32	63
4x1	6.4	40	80
5x1	7.1	50	102
7x1	7.8	68	126
10x1	10.3	94	187
2x1.5	6.7	32	73
3x1.5	7.0	46	90
4x1.5	7.7	57	114
5x1.5	8.6	72	146
7x1.5	9.4	98	183
9x1.5	11.3	124	247
10x1.5	12.5	137	271

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