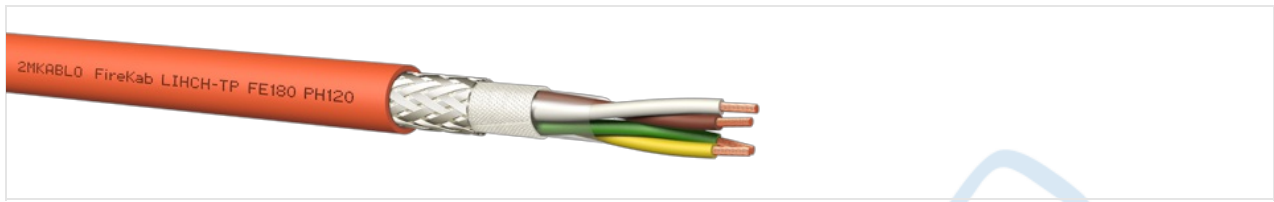


## FireKab LIHCH-TP FE180 PH120



### 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 EI2)
<b>Core Colors</b>	DIN 47100 (for more than 2 pairs black-white / numbered)
<b>Lay-up</b>	Cores are twisted as pairs and pairs 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>Corrosive Gases Measurement</b>	IEC/EN 60754-2
<b>Amount of Halogen Acid Gas</b>	IEC/EN 60754-1
<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)
2x2x0.5	7.5	26	73
3x2x0.5	8.0	35	91
4x2x0.5	8.9	45	115
5x2x0.5	9.8	54	138
2x2x0.75	8.4	35	93

3x2x0.75	9.0	49	118
4x2x0.75	9.9	63	147
5x2x0.75	11.1	77	182
2x2x1	9.0	45	109
3x2x1	9.6	63	140
4x2x1	10.6	80	174
5x2x1	11.8	98	215
2x2x1.5	10.7	64	151
3x2x1.5	11.5	90	198
4x2x1.5	12.7	116	250
5x2x1.5	14.0	142	303

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