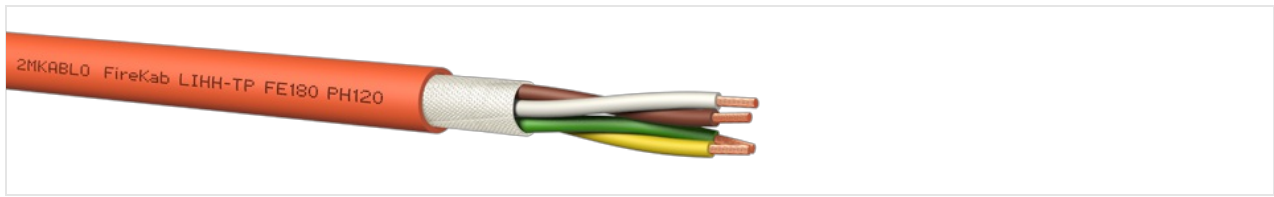


## FireKab LIHH-TP FE180 PH120



### 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 E12)
<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>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)
2x2x0.5	7.5	18	64
3x2x0.5	8.0	27	82
4x2x0.5	8.8	36	102
5x2x0.5	9.7	45	124
7x2x0.5	10.8	63	165
10x2x0.5	14.0	89	243

2x2x0.75	8.4	27	81
3x2x0.75	9.0	40	106
4x2x0.75	10.0	54	136
5x2x0.75	11.0	67	166
7x2x0.75	12.2	93	218
10x2x0.75	15.8	132	319
2x2x1	8.9	37	96
3x2x1	9.6	54	126
4x2x1	10.5	71	160
5x2x1	11.7	87	197
7x2x1	12.9	124	260
10x2x1	16.8	176	382
2x2x1.5	10.7	54	141
3x2x1.5	11.5	80	184
4x2x1.5	12.8	106	235
5x2x1.5	14.1	132	286
7x2x1.5	15.5	184	377
10x2x1.5	20.1	262	551

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