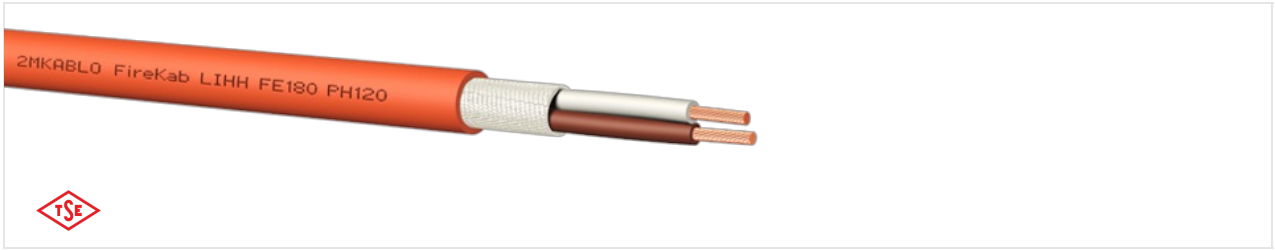
FireKab LIHH FE180 PH120



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
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
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
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
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	4.5	10	28
3x0.5	4.7	14	36
4x0.5	5.3	18	46
5x0.5	5.8	23	59
7x0.5	6.4	32	73

10x0.5	8.4	46	110
2x0.75	5.1	14	37
3x0.75	5.4	21	48
4x0.75	6.0	27	61
5x0.75	6.5	34	78
7x0.75	7.2	48	98
10x0.75	9.6	68	155
2x1	5.4	18	47
3x1	5.7	27	59
4x1	6.3	36	76
5x1	7.0	46	99
7x1	7.7	64	125
10x1	10.1	91	183
2x1.5	6.5	27	66
3x1.5	6.9	41	87
4x1.5	7.6	55	112
5x1.5	8.5	68	145
7x1.5	9.3	96	183
10x1.5	12.4	136	275
2x2.5	7.6	45	97
3x2.5	8.0	68	126
4x2.5	8.9	91	165
5x2.5	9.9	114	213
7x2.5	10.9	159	271
10x2.5	14.4	227	402

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