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

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 (for more than 2 pairs black-white / numbered)
Lay-up	Cores are twisted as pairs and pairs are stranded in layers
Flame Barrier	Fiber Glass Tape
Screen	Tinned Copper Wire Braid
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
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
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
Corrosive Gases Measurement	IEC/EN 60754-2
Amount of Halogen Acid Gas	IEC/EN 60754-1
Min. Bending Radius	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter
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)
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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