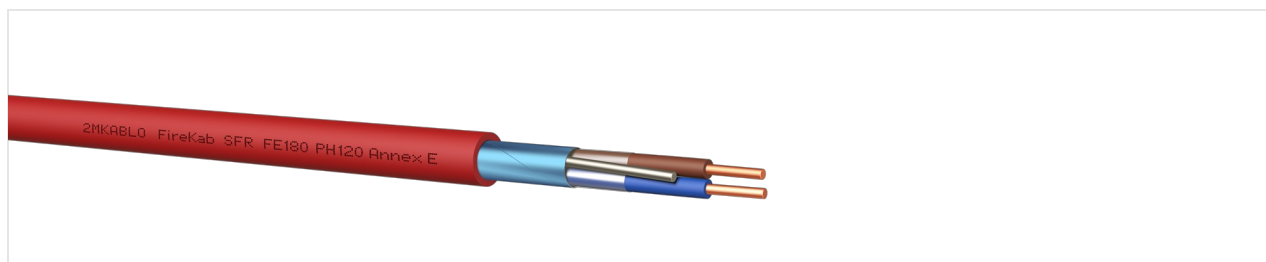


FireKab SFR FE180 PH120 Annex E



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	Annealed Solid Copper (IEC/EN 60228 Class 1)
Insulation	Fire Resistant Silicon Rubber (BS 7655 EI2)
Lay-up	Cores are stranded in layers
Separator	PET Foil
Drain Wire	Solid tinned copper with the same of conductor
Screen	Al-PET Foil
Outer Sheath	Halogen Free Flame Retardant Compound (HFFR / LSZH / LSOH / FRNC, BS 7655-6 LTS3), RAL 3000 - Red or RAL 9003 - White
Reference Standards	BS 7629 - 1:2008
Core Colors	BS 7671 / HD308 S2

Technical Properties

Operating Voltage	300 V / 500 V
Test Voltage	2000 V
Conductor Resistance	1.00 mm ² - ≤ 18 Ω/km; 1.50 mm ² - ≤ 12 Ω/km; 2.50 mm ² - ≤ 7.4 Ω/km
Insulation Resistance	>200 M.Ωxkm
Temperature Range	Fixed: -30 °C.....+90 °C, Flexible: -5 °C+60 °C
Flame Retardancy	IEC/EN 60332-1, IEC/EN 60332-3-24
Fire Resistance	IEC 60331-21, BS 6387 C,W,Z, EN 50200 PH120, EN Annex E (30 min.)
Smoke Density	IEC 61034-1/2
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Min. Bending Radius	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm ²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x1.00	6.6	27	70
3x1.00	7	36	86
4x1.00	7.8	45	104

2x1.50	7.5	39	95
3x1.50	8	52	116
4x1.50	9	65	144
2x2.50	9.1	66	145
3x2.50	9.4	88	174
4x2.50	10.5	110	212

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