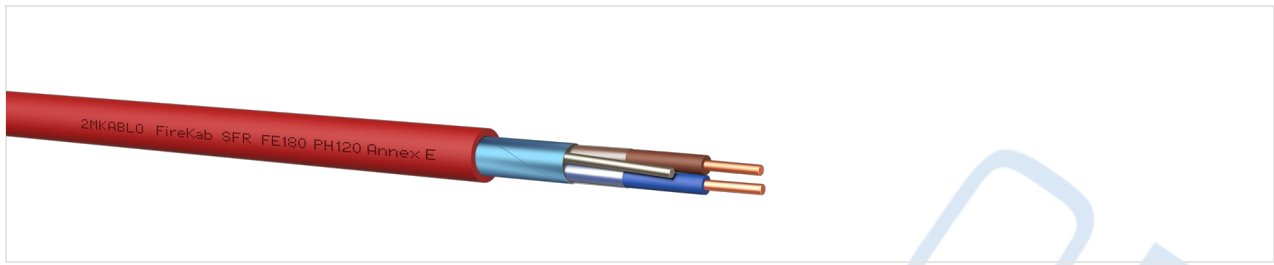


## FireKab SFR FE180 PH120 Annex E



### 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

<b>Conductor</b>	Annealed Solid Copper (IEC/EN 60228 Class 1)
<b>Insulation</b>	Fire Resistant Silicon Rubber (BS 7655 E12)
<b>Lay-up</b>	Cores are stranded in layers
<b>Separator</b>	PET Foil
<b>Drain Wire</b>	Solid tinned copper with the same of conductor
<b>Screen</b>	Al-PET Foil
<b>Outer Sheath</b>	Halogen Free Flame Retardant Compound (HFFR / LSZH / LSOH / FRNC, BS 7655-6 LTS3), RAL 3000 - Red or RAL 9003 - White
<b>Reference Standards</b>	BS 7629 - 1:2008
<b>Core Colors</b>	BS 7671 / HD308 S2

### Technical Properties

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

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	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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