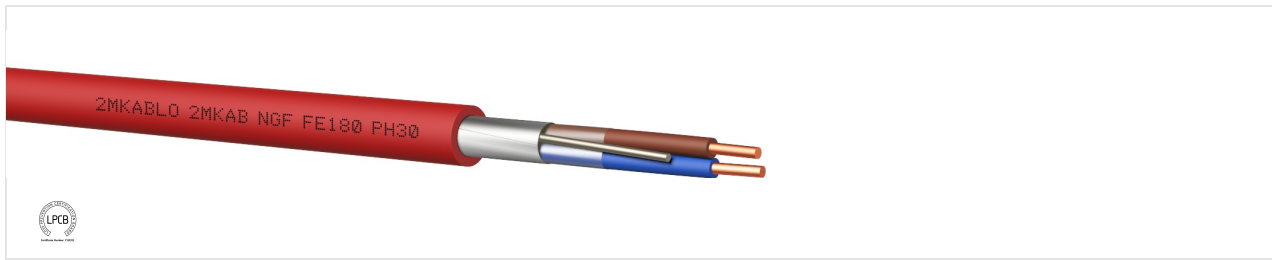


## 2MKAB NGF FE180 PH30



### Areas of Use

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. Fire-resistant products have low smoke density, are halogen-free and they don't emit poisonous gases.

### Cable Construction

<b>Insulation</b>	Fire Resistant Silicon Rubber (BS 7655 EI2)
<b>Conductor</b>	Annealed Solid Copper (IEC/EN 60228 Class 1)
<b>Lay-up</b>	Cores are stranded in layers
<b>Separator</b>	PET Foil
<b>Drain Wire</b>	0.80 mm Solid Tinned Copper
<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>Core Colors</b>	BS 7671 / HD308 S2

### Technical Properties

<b>Operating Voltage</b>	300 V / 500 V
<b>Test Voltage</b>	2000 V
<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 PH30
<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
<b>Conductor Resistance</b>	1.50 mm <sup>2</sup> - ≤ 12 Ω/km; 2.50 mm <sup>2</sup> - ≤ 7.4 Ω/km
<b>Smoke Density</b>	IEC 61034-1/2

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x1.50	6.7	31	67
3x1.50	7.1	43	85
4x1.50	7.9	56	109
2x2.50	7.9	49	96

3x2.50	8.5	70	128
4x2.50	9.2	93	160

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