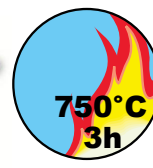
**2MKAB NGF FE180 PH30 LPCB 711e/01**

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.

**The 2MKAB NGF FE 180 PH30 cables are approved by Dubai Civil Defense for a fire rating of 750°C for 3 hours.**

**Constructional Properties**

<b>Conductor</b>	Solid annealed copper wire (IEC/EN 60228 Class 1)
<b>Insulation</b>	Fire resistant silicon rubber
<b>Core Identification</b>	HD 308 S2 (for details please see color code table below)
<b>Lay-up</b>	Cores stranded in layers
<b>Overall Screen</b>	ALPET foil
<b>Drain Wire</b>	0.80 mm solid tinned copper wire
<b>Separator</b>	PET foil
<b>Sheath</b>	Halogen free flame retardant compound (HFFR/LSHF/FRNC)
<b>Sheath Color</b>	Red (RAL 3000) or White (RAL 9003)

**Technical Properties**

<b>Operating Voltage</b>	300/500V
<b>Test Voltage</b>	2 kV
<b>Insulation Resistance</b>	min. 200 MΩ x km
<b>Temperature Range</b>	Operation: -30°C...+90°C      Installation: -5°C...+60°C
<b>Min. Bending Radius</b>	Operation: 8 x Cable diameter      Installation: 15 x Cable diameter
<b>Flame Propagation</b>	IEC 60332-1-2, IEC 60332-3-24
<b>Fire Resistance Test</b>	IEC 60331-21, BS 6387 C,W,Z, EN 50200 PH30
<b>Smoke Density</b>	IEC 61034-1/2
<b>Amount of Halogen Acid Gas</b>	IEC 60754-1
<b>Corrosive Gases Measurement</b>	IEC 60754-2, BS/EN 50267

**Marking**

2MKABLO [LOT NO] 2MKAB NGF FE180 PH30 [DESCRIPTION] 300/500V BSEN50200 PH30, BS 6387 CWZ LPCB 711e/01 [METER MARK]



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Configuration	Cable Diameter (Approx.) [mm]	Conductor Resistance [Ω/km]	Copper Weight [kg/km]	Cable Weight (Approx.) [kg/km]
2 x 1,5 mm <sup>2</sup>	6,70	12,1	31	67
3 x 1,5 mm <sup>2</sup>	7,10	12,1	43	85
4 x 1,5 mm <sup>2</sup>	7,90	12,1	56	109
2 x 2,5 mm <sup>2</sup>	7,90	7,41	47	94
3 x 2,5 mm <sup>2</sup>	8,40	7,41	68	125
4 x 2,5 mm <sup>2</sup>	9,20	7,41	90	156

Number of Cores	HD 308 S2 Color Code			
2	Blue	Brown		
3	Brown	Black	Gray	
4	Blue	Brown	Black	Gray

This document has been prepared for general purpose and covers only performance, weight and dimensions of the cable. Core identification, sheathing colour/markings may be different and can be modified upon request. 2M Kablo reserves the rights of changing the specified values and dimensions without any prior notice.



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