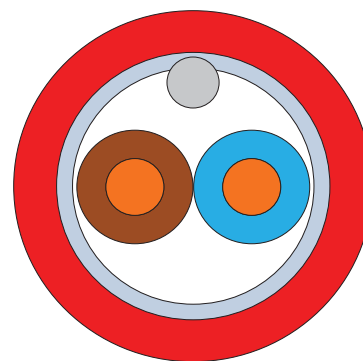




# FIREGUARD



## Fire Cable FG FRC 180

### Product Overview

Fireguard fire performance cables are designed for augmented fire resistance in applications including the delivery of power and auxiliary control in fire alarm systems, voice alarm systems, and emergency lighting systems including those applications designed to meet BS5266. These cables will form part of the requirements of BS8519 for the installation of fire resistant power and control cable systems for life safety and fire-fighting applications.

### Construction

Conductor	Solid bare copper (IEC/ EN 228, BS 6360, VDE 0295, HD 383)
Insulation	Fire resistant silicon rubber (HD 22.1, BS 7655 E12), colors: BS7671/HD308 S2/VDE0293-308 (for more than 5 cores white core/black numbered)
Separator	Polyester tape
Drain Wire	0.80 mm Solid tinned copper
Shield	Aluminum laminated polyester tape
Sheath	HFFR, Red (RAL 3000) or White; EN 50290-2, VDE 0207 HM2, BS 7655 LTS1 / LTS3

### Features

- Halogen Free Flame retardant
- Low Smoke
- Supplied on robust plastic reels
- Safe & Easy to handle
- Weather & Moisture resistant

### Important

Fireguard cables are manufactured with latest technology to ensure consistent quality and reliability. All the cables are fully traceable with batch no. Fireguard Cables are LPCB approved to BS 6387 CWZ and EN 50200 for 2, 3 & 4 cores

### Technical & Electrical Properties (20°C)

Conductor Resistance (max.)	1 mm <sup>2</sup> : 18.1 Ω/km - 1.5 mm <sup>2</sup> : 12.1 Ω/km - 2.5 mm <sup>2</sup> : 7.41 Ω/km
Insulation Resistance (min.)	200 M.Ωxkm
Operating Voltage	300 V / 500 V Test Voltage 2000 V
Temperature Range	Fixed -30 °C ...+90 °C Flexing -5 °C ...+60 °C
Min. Bending Radius	Fixed 8 x Cable Diameter, Flexing 15 x Cable Diameter
Flame Tests	IEC / EN 60332-1, IEC 60332-3-24, (BS 4066 part 1&3), EN 50266-2-4
Insulation Integrity Smoke	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30
Density	IEC / EN 61034, BS 7622, HD 606
Corrosive Gas Measurement	IEC 60754-2, BS 6425, EN 50267

<b>Cross Section (mm<sup>2</sup>)</b>	<b>Approx. Overall Diameter (mm)( ± % 10)</b>	<b>Conductor Resistance (Ω/Km)</b>	<b>Approx weight (kg/km)</b>
2 X 1(RE)	6,00	18,1	59
2 X 1,5(RE)	7,00	12,1	77
3 X 1,5(RE)	7,60		103
4 X 1,5(RE)	8,30		126
2 X 2,5(RE)	9,00	7,41	111
3 X 2,5(RE)	9,10		151
4 X 2,5(RE)	10,10		193
2 X 1,5(RM)	7,40	7,41	81
3 X 1,5(RM)	8,00		108
4 X 1,5(RM)	9,00		138
2 X 2,5(RM)	8,80	12,1	115
3 X 2,5(RM)	9,50		154
4 X 2,5(RM)	10,60		199

<b>PRODUCT NAME</b>							<b>LPCB Ref. No.</b>
<b>FIREGUARD FG FRC 180</b>							<b>1788a/01</b>
<b>Nominal csa of conductor (mm<sup>2</sup>)</b>	<b>Core Construction (excluding drain wire and earth)</b>	<b>BS 6387</b>	<b>EN 50200</b>	<b>EN 60754-1</b>	<b>EN 60754-2</b>	<b>EN 61034-2</b>	<b>IEC 60332-3-24</b>
1.0 <sup>(1)</sup>	2	C, W, Z	PH120	<0.5% HCL	Complies	>60%	Complies
1.5 <sup>(2)</sup>	2, 3 & 4	C, W, Z	PH120	<0.5% HCL	Complies	>60%	Complies
2.5 <sup>(2)</sup>	2, 3 & 4	C, W, Z	PH120	<0.5% HCL	Complies	>60%	Complies

\*\*Note

1. Solid Conductor only
2. Solid & Stranded Conductor
3. Available in Red/White
4. 100mtr & 500mtr Rolls other lengths on request