

## FIRE RESISTANT CABLE - PH30 SOLID



### Construction

Conductor	Solid bare copper (IEC/ EN 228, BS 6360, VDE 0295, HD 383)
Insulation	Fire resistant silicon rubber (HD 22.1, BS 7655 EI 2), 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	Aluminium laminated polyester tape
Sheath	HFFR, Red (RAL 3000) or White; EN 50290-2, VDE 0207 HM2, BS 7655 LTS1 / LTS3

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

Conductor Resistance (max.)	1 mm <sup>2</sup> : 18 Ω/km - 1.5 mm <sup>2</sup> : 12 Ω/km - 2.5 mm <sup>2</sup> : 7.4 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	IEC 60331, BS 6387 C, W, Z, EN 50200 PH30	
Smoke Density	IEC / EN 61034, BS 7622, HD 606	
Corrosive Gas Measurement	IEC 60754-2, BS 6425, EN 50267	

NO. OF CORES / CROSS SECTION (mm<sup>2</sup>) | CABLE DIAMETER (mm) (±5%) | COPPER WEIGHT (Kg/Km) | CABLE WEIGHT (Kg/Km)

Cross Section (mm <sup>2</sup> )	No. of Cores	Cable Diameter (mm)	Copper Weight (Kg/Km)	Cable Weight (Kg/Km)
<b>1.00 mm<sup>2</sup></b>	2x1.00	5.80	23	51
	3x1.00	6.00	32	65
	4x1.00	6.60	41	81
	5x1.00	7.50	50	101
	7x1.00	7.85	70	130
<b>1.50 mm<sup>2</sup></b>	2x1.50	6.65	33	70
	3x1.50	6.75	46	90
	4x1.50	7.60	59	110
	5x1.50	8.50	75	140
	7x1.50	9.20	104	180
<b>2.50 mm<sup>2</sup></b>	2x2.50	7.80	50	100
	3x2.50	8.25	72	135
	4x2.50	9.10	95	165