

# Heat Mat

## Underfloor Heating

Call 01444 247020  
to find out more or  
visit our website at  
[www.heatmat.co.uk](http://www.heatmat.co.uk)

### 3mm Cable Features

- Ideal for use in small or complicated rooms due to the flexible nature of the heating cable
- The heat output can be altered over the room to match your individual requirements; provide additional heat in front of doors or in 'cold corners' of the room
- Ideal for tiled floors, and also perfect for use beneath carpet, bonded-wood and vinyl surfaces if first covered with a flexible levelling compound
- Ultra-thin fluoropolymer insulated cable ensures minimal build height, and robust outer insulation means there is no requirement to cover the cable with tape before laying your floor covering
- Advanced dual conductor cable design means only one connection lead
- A large range of standard sizes which can be mixed and matched to ensure the perfect fit
- Supplied with a Lifetime Warranty and independently BEAB and Semko approved
- Made in Denmark

### Compatible with



Thermostats



Thermal insulation boards



I-primer



Levelling compound



Additional 3mm cables



Heating Cable

## Heat Mat Undertile Heating Cable

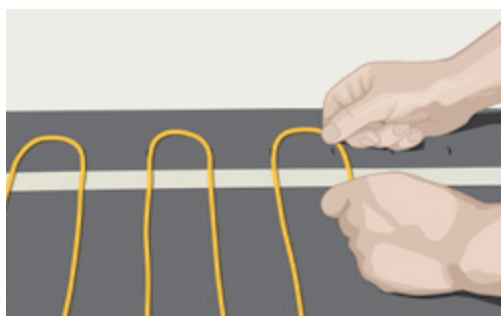
### Flexible, ultra-thin underfloor heating cable

#### Universal Underfloor Heating Cable

A flexible simple to fit heating system designed to provide energy efficient floor warming or a full heating system as desired. This electric underfloor heating cable is particularly suited to small or complicated areas where heating mats can be more complicated to install.

The systems output is varied by altering the spacing of the heating cable, allowing 200W/m<sup>2</sup> to be installed in conservatories and similar high heat loss areas. An additional benefit of this system is that it can be used beneath virtually any floor covering if covered with a levelling compound and installed with an output of no more than 160W/m<sup>2</sup>.

- When installed at 200W/m<sup>2</sup> this system is suitable for providing a full room heating system, even in high heat loss areas such as conservatories
- Perfect for floor warming or room heating in standard rooms when installed at 160W/m<sup>2</sup>
- Alter the heat output to match your individual requirements - outputs from 80W/m<sup>2</sup> to 230W/m<sup>2</sup> are possible

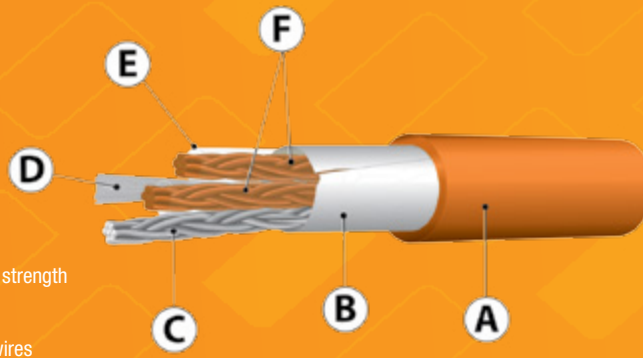


- When used with Heat Mat's intelligent thermostat timers this heating cable provides a more energy efficient and cost effective heating system than lower powered alternatives
- Particularly economic to purchase, and can be installed onto thermal insulation boards to provide a faster reacting and more economic heating system
- Significantly quicker to install than some alternative systems as there is no need to cover the entire heating cable with masking tape due to its high strength outer insulation

Product code	Coverage m <sup>2</sup>	Wattage	Resistance
PKC-3.0-0130	0.8 - 1.1	130W	442 Ω
PKC-3.0-0212	1.2 - 1.7	212W	272 Ω
PKC-3.0-0316	1.8 - 2.4	316W	182 Ω
PKC-3.0-0407	2.5 - 3.0	407W	142 Ω
PKC-3.0-0518	3.1 - 3.6	518W	111 Ω
PKC-3.0-0577	3.7 - 4.2	577W	100 Ω
PKC-3.0-0719	4.3 - 5.2	719W	80 Ω
PKC-3.0-0855	5.3 - 6.3	855W	67 Ω
PKC-3.0-1086	6.4 - 7.5	1086W	53 Ω
PKC-3.0-1207	7.6 - 8.5	1207W	48 Ω
PKC-3.0-1350	8.6 - 9.5	1350W	43 Ω
PKC-3.0-1507	9.6 - 10.8	1507W	38 Ω
PKC-3.0-1772	10.9 - 12.5	1772W	33 Ω
PKC-3.0-1983	12.6 - 13.9	1983W	29 Ω
PKC-3.0-2250	14.0 - 15.5	2250W	26 Ω
PKC-3.0-2406	15.6 - 16.8	2406W	24 Ω

# Only Heat Mat cables include:

- A. Robust PVC (Y) outer insulation
- B. 100% aluminium earth shield for safety
- C. High load earth drain wire
- D. Fibreglass reinforcement cable for tensile strength
- E. Fluoropolymer insulation rated to 200°C
- F. Litzner style twin spiral wound resistance wires



## Selecting the correct heating cable

To start with you will need to decide on the heat output of your heating system. For floor warming or room heating in well insulated areas we suggest installing the cable at roughly 150W/m<sup>2</sup>, and for high heat loss areas, or for a faster reacting system, we recommend choosing a 200W/m<sup>2</sup> output.

Once you have chosen your desired output you should measure your room to find the total floor area. You should then subtract from this figure any areas where kitchen or bathroom furniture will be placed, or where furniture without an air gap underneath it will be positioned. Once you have subtracted these areas you have your free floor area (FFA). If you multiply the FFA by the Wattage output you have chosen you will have the total output of heating cable you require, and you should then choose the most suitable combination of heating cables from the front of this sheet to provide you with the closest combined Wattage to your required output.

## Combining multiple units

Undertile heating cables are designed to be laid together with other heating cables to ensure the perfect floor coverage. The cables are wired into the thermostat or junction box in parallel, and heating cables can be used to 'fill in the gaps' in a heating mat system, as long as they are laid at the same output as the mats.

## Flexible and quick installation

Heat Mat electric undertile heating cables are incredibly simple to install, and in small or

complicated areas can be significantly quicker to install than heating mats. The cable spacing can be altered to match your exact heat output requirements, and the system is fixed to the floor with the supplied high strength double-sided tape before tiling on top.

## Sub-floor surfaces and insulation board

For the most energy efficient system and the fastest warm up time we recommend laying heating cables onto Heat Mat thermal insulation board. Heating cables can also be laid onto pre-primed concrete, tile or stone surfaces or suitably secured ply board.

## Suitable for nearly any floor covering

If you are unsure of the final floor covering, the heating cables can be laid at an output of up to 160W/m<sup>2</sup> and covered with flexible levelling compound. This allows nearly any floor covering to be laid on top including tiles, stone, carpet, laminate, solid wood, Karndean and vinyl.

## Approved and guaranteed

Heat Mat's electric underfloor heating cables are independently BEAB and Semko approved, manufactured in Denmark in our BEAB approved factory, and supplied with a Lifetime Warranty. They are also certified by Semko as having a very low EMC radiation, which is a result of their twin conductor design and 100% aluminium earth shield.



## 3mm Heating Cable Technical Specification

Supply Voltage	230V +/- 10
Output range	130W – 2406W
Maximum load	15W/metre
Standard range	9.2m – 171.0m
Coverage at 150W	0.9m <sup>2</sup> -16.0m <sup>2</sup>
Coverage at 200W	0.6m <sup>2</sup> -12.0m <sup>2</sup>
Coldtail lead	2m double insulated cable
Wire thickness	2.7mm-3.2mm
Cable flexibility	Minimum radius 18mm
IP Rating	IPX7
Inner insulation	Fluoropolymer (FEPY7) 200°C
Outer insulation	PVC(Y) 90°C
Earth protection	100% aluminium earth shield
Cable reinforcement	Fibreglass strands
Fixing materials	Supplied with double-sided tape
Compliant with	Part L, 17th Edition IEE Wiring Regulations, EN 60335-1:1998, EN60335-2-17:1999, IEC 60730

## Wiring

Heating cables must always be controlled by a suitable electric underfloor heating thermostat with floor temperature limitation. Heat Mat thermostats are rated to 16 Amps, and if a system exceeds this loading a suitably rated contactor should be used. The circuit must be protected by a 30mA RCD and suitably rated fuse or circuit breaker.



## About Heat Mat

With more than 1,200,000m<sup>2</sup> of underfloor heating installed, 20 years' experience of the UK underfloor heating market and a wealth of knowledge on Scandinavian ice and snow melting systems, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements.

This is why we are the Professionals' Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.



## Contact us

Heat Mat Limited  
Ashwyn Business Centre,  
Marchants Way, Burgess Hill,  
West Sussex, RH15 8QY

T. 01444 247020  
F. 01444 247121  
Email sales@heatmat.co.uk

[www.heatmat.co.uk](http://www.heatmat.co.uk)

# Heat Mat Underfloor Heating



To see all of our products use your smart phone to scan this code.