



HEATING CABLE



# 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)**

## 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
- 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.
- 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.
- 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.

### 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



Thermal  
insulation boards



Additional  
3mm cables



Thermostats



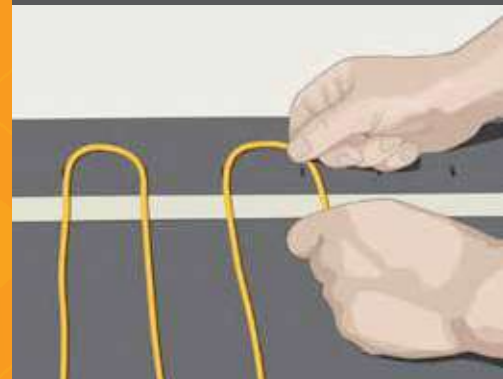
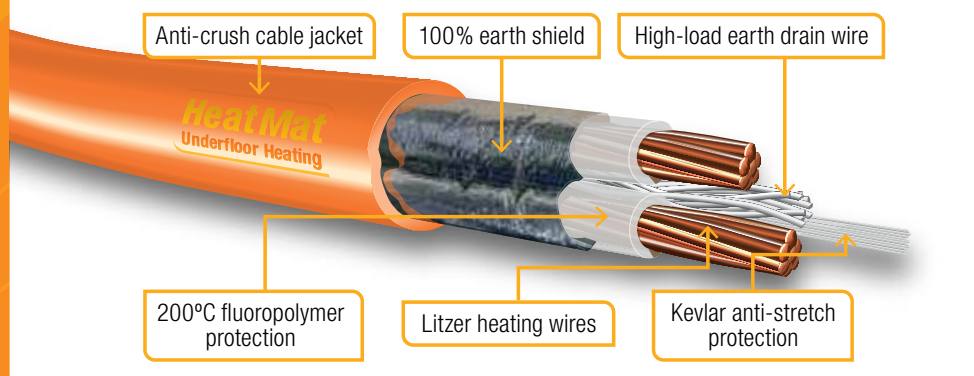
I-primer



Levelling  
compound



Decoupling  
Membrane



## Our Ultimate Heating Cable



### Litze Wire Technology

Multiple heating elements are spun together to provide superior strength in a very flexible heating wire.



### 200°C Fluoropolymer Protection

Super-high temperature fluoropolymer insulation surrounds the heating elements and provides superior protection.



### Kevlar Anti-stretch Cable

Kevlar strands run through the centre of the heating cable preventing it from damage during installation.



### 100% Earth Shield

An aluminium safety shield wraps the entire heating cable to ensure the system is instantly shut down if damaged.



### Anti-crush Cable Jacket

The high quality PVC cable jacket provides protection against cutting and damage during installation.



### 100% Shielded Coldtail

The entire coldtail is shielded continuing the 100% electrical protection.



### Cut & Turn Mat System

The cut-and-turn system allows mats to be turned back on themselves multiple times during fitting.



### Zero-float Mesh

The mesh terminates at the last row of tape rather than continuing to the ends of the cable, so none floats up when covered in levelling compound.

## 3mm Heating Cable Technical Specification

Supply Voltage	230V +/- 10
Output range	120W – 2170W
Maximum load	15W/metre
Standard range	9.4m – 174.0m
Coverage at 160W	0.8m²-13.6m²
Coverage at 200W	0.6m²-10.9m²
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	Kevlar strands
Fixing materials	Supplied with double-sided tape
Compliant with	Part L, 18th Edition IEE Wiring Regulations

### Wiring

Heating mats 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.

Product code	Coverage m²	Wattage	Resistance
PKC-3.0-0120	0.6 - 1.2	120W	451 Ω
PKC-3.0-0190	1.0 - 1.9	190W	277 Ω
PKC-3.0-0290	1.5 - 2.9	290W	185 Ω
PKC-3.0-0370	1.9 - 3.7	370W	143 Ω
PKC-3.0-0470	2.4 - 4.7	470W	113 Ω
PKC-3.0-0550	2.8 - 5.5	550W	96 Ω
PKC-3.0-0650	3.3 - 6.5	650W	81 Ω
PKC-3.0-0840	4.2 - 8.4	840W	63 Ω

Product code	Coverage m²	Wattage	Resistance
PKC-3.0-0980	4.9 - 9.8	980W	54 Ω
PKC-3.0-1090	5.5 - 10.9	1090W	49 Ω
PKC-3.0-1230	6.2 - 12.3	1230W	43 Ω
PKC-3.0-1370	6.9 - 13.7	1370W	39 Ω
PKC-3.0-1630	8.2 - 16.3	1630W	33 Ω
PKC-3.0-1770	8.9 - 17.7	1770W	30 Ω
PKC-3.0-1920	9.6 - 19.2	1920W	28 Ω
PKC-3.0-2170	10.9 - 21.7	2170W	24 Ω

## About Heat Mat

Heat Mat is part of the Heatcom group of companies, one of Europe's largest underfloor heating manufacturers. With Heat Mat's 25 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

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