

Heat Mat

Underfloor Heating

Call 01444 247020
to find out more or
visit our website at
www.heatmat.co.uk

7mm Cable Features

- Perfect for new build or major renovation scenarios where a 65mm screed is going to be laid
- The most cost effective underfloor heating system to purchase and install
- Suitable for use beneath virtually any floor covering, and provides a very stable temperature
- Alter the distance between heating cables to provide a system with your desired output
- Incredibly robust cable design to ensure it is 'building site' safe
- 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
- Suitable for outdoor ice and snow melting systems beneath driveways, car parks and walkways
- UV stable design means it is ideal for ice and snow melting systems on roofs and in gutters
- Supplied with a Lifetime Warranty
- Part L Compliant to provide an energy efficient heating system
- Made in Denmark in our BEAB Approved Factory

Compatible with



Thermostats



Thermal insulation boards



Ice and Snow systems



7mm Heating Cable

Heat Mat 7mm Heating Cable

Robust in-screed and outdoor heating cable

7mm In-screed Underfloor Heating Cable

A robust and cost effective heating cable designed for new build and major renovation projects where a 65mm screed will be laid. The cable is suitable for providing energy efficient room heating and floor warming beneath nearly any floor covering and is fast to install and adds no build height to the construction.

In-screed heating cables provide a remarkably stable room temperature, and the screed bed can be 'charged up' over night to take advantage of cheap rate electricity, before releasing its heat into the room during the day.

- Perfect for any situation where a new screed floor is going to be laid
- Particularly suitable for large areas such as warehouses or sports halls; the installation time

per square meter drops dramatically in rooms over 100m²

- Benefits from being installed directly onto foil or concrete faced sub-screed insulation
- Simple and cost effective to install, providing Heat Mat's least expensive electric underfloor heating system
- When used with one of Heat Mat's intelligent thermostat timers provides an exceptionally energy efficient heating system
- Ideal for nearly all external ice and snow melting applications due to its strong design and UV stability
- 3-Phase systems and bespoke sizes of heating cable are available where required

Product code	Length in metres	Wattage	Resistance	270W/m ² c-c 7.5cm	200W/m ² c-c 10.0cm	160W/m ² c-c 12.5cm
PKC-7.0-0210	10.5 m	210 W	246 Ω	0.8 m ²	1.1 m ²	1.3 m ²
PKC-7.0-0417	21.0 m	417 W	124 Ω	1.5 m ²	2.1 m ²	2.6 m ²
PKC-7.0-0504	26.0 m	504 W	105 Ω	1.9 m ²	2.5 m ²	3.2 m ²
PKC-7.0-0627	32.0 m	627 W	81 Ω	2.3 m ²	3.1 m ²	3.9 m ²
PKC-7.0-0837	42.0 m	837 W	61 Ω	3.1 m ²	4.2 m ²	5.2 m ²
PKC-7.0-1022	50.0 m	1022 W	53 Ω	3.8 m ²	5.1 m ²	6.4 m ²
PKC-7.0-1246	62.0 m	1246 W	44 Ω	4.6 m ²	6.2 m ²	7.8 m ²
PKC-7.0-1381	69.0 m	1381 W	40 Ω	5.1 m ²	6.9 m ²	8.6 m ²
PKC-7.0-1774	89.0 m	1774 W	31 Ω	6.6 m ²	8.9 m ²	11.1 m ²
PKC-7.0-2144	105.0 m	2144 W	26 Ω	7.9 m ²	10.7 m ²	13.4 m ²
PKC-7.0-2458	123.0 m	2458 W	21 Ω	9.1 m ²	12.3 m ²	15.4 m ²
PKC-7.0-3067	150.0 m	3067 W	17 Ω	11.4 m ²	15.3 m ²	19.2 m ²
PRA-111-0001	12m Cable fixing band - sufficient for up to 75m of cable					
PRA-111-0002	25m Cable fixing band - sufficient for up to 150m of cable					
HCA-111-0008	25m Double-sided tape - for securing fixing bands					



Selecting the correct heating cables

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 160W/m², and for high heat loss areas, or for a faster reacting system, we recommend choosing a 200W/m² 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 pick 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

7mm heating cables are designed to be laid together with other 7mm heating cables to ensure the perfect fit, every time. The cables are wired into the thermostat or junction box in parallel, and it is important to ensure that all of the cables in a room are installed at roughly the same Wattage output per square meter to ensure uniform heating across the room.

Fast and efficient installation

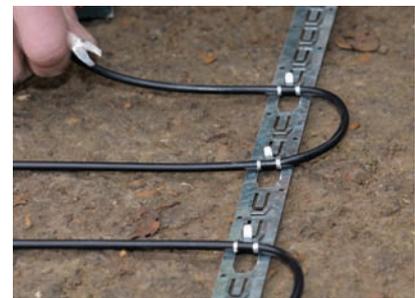
Heat Mat in-screed heating cables are usually installed directly onto the layer of sub-screed insulation or on top of the damp proof membrane if one is fitted. The cables are fast to install and can be secured directly to reinforcement mesh by zip ties, or onto Heat Mat Heat Fix metallic strips which are secured to the base with double-sided tape or a nail gun. In rooms above 100m² the system becomes exceptionally quick to install per square meter as the cable runs are so long.

Energy efficient heating

7mm heating cables are almost 100% efficient at converting electricity into heat and they can easily be powered from either photo voltaic or wind power sources. When used with Heat Mat's NGT thermostat they form a Part L compliant system, and they are also suitable for integration into a home/building automation system.

Ice and snow melting systems

Heat Mat's 7mm cable has been designed to be used for outdoor applications as its UV stability, full earth shield and robust design provide it with a full IPX7 rating. It is ideal for ice and snow melting on roofs and in gutters where it is significantly less expensive than the trace heating cable that is normally used, and it is also suitable for ice and snow melting beneath driveways and walkways. Please contact Heat Mat or see our Ice and Snow Melting factsheets for further details of these systems.



7mm Heating Cable Technical Specification

Supply Voltage	230V +/- 10%
Output range	210W-3067W
Maximum load	21W/m
Standard range	10.5m-150.0m
Coverage at 160W	1.3m ² -18.8m ²
Coverage at 200W	1.1m ² -15.0m ²
Coldtail lead	2m double insulated cable
Wire thickness	6.8mm-7.2mm
Cable flexibility	Minimum radius 50mm
IP Rating	IPX7
Inner insulation	0.8mm silicon rubber (2G)
Outer insulation	PVC(105)90oC
Earth protection	100% aluminium earth shield
Cable reinforcement	Fibreglass strands
UV Stability	Confirmed UV stable by VDE Test Institute
Fixing materials	Heat Fix metal bands can be used
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 900,000m² of underfloor heating installed, 16 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 Professional's Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.



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