

# Living Heat

Bringing Heat to Life!

## Warranty card.

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

Living Heating provides a warranty for the floor heating mats / under tile heating cables for a period of 15 years from date of order.

In case of defective material, Living Heating will be limited to supply a new material free of charge to the customer.

The warranty does not cover installations made by unauthorised electricians or faults caused by incorrect design by others / misuse / damage caused by others / incorrect installation and any other subsequent damage that may occur.

Replacement will be fully chargeable if the damage is because of any of the above reasons.

Living Heating is under no circumstances liable for consequential damages or losses without limitation the loss or profit arising from any cause whatsoever. The guarantee covers the heating element only and does not cover field labour or floor material that is laid on top.

The warranty is void if there is any payment default or if details are not entered on the control card.

### Control card, (to be completed by qualified electrician).

Cat. SL No / Cable size	Test	Before commencing of Installation (Unrolled)	After installation of heating system but before laying flooring	After laying floor covering.
	Resistance of cable (Ohms)			
	Insulation resistance (M.Ohms)			
	Continuity			

Date of testing: \_\_\_\_\_

Company Name: \_\_\_\_\_

Electricians signature: \_\_\_\_\_ Print: \_\_\_\_\_

Contact telephone No: \_\_\_\_\_

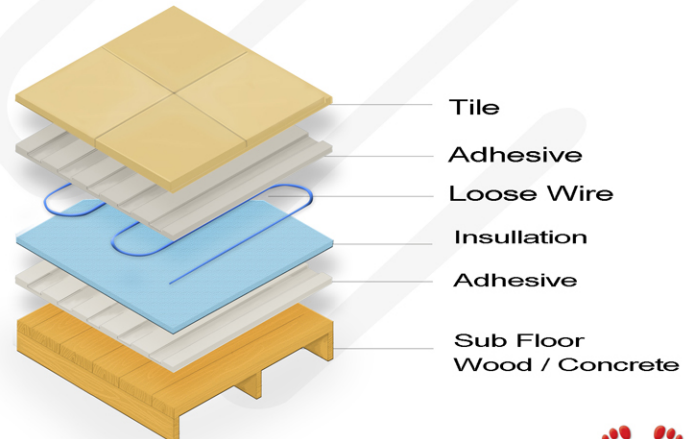
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## Under Tile & Stone Heating

### Loose Wire Fitting Instructions



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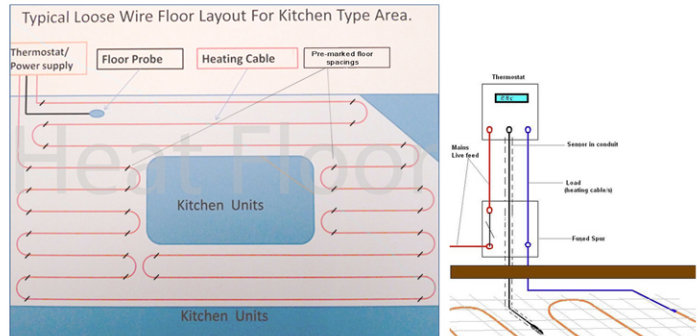
## Loose Wire Fitting Instructions.

- 1: Make sure the floor is level, free of dust and debris & suitable for the desired floor covering prior to any heating or insulation being installed. Over concrete sub floors it is recommended to first install an additional 60 or 10mm insulation layer.
- 2: Time should be taken to plan the floor layout, please see the diagram below. The cable length on each system is set and the power output is also set to 10watts per linear meter. To use the heating as a primary heat source it is recommended to install 150w/m<sup>2</sup> or more over a minimum of 70% of the floor area. To achieve 150w/per m<sup>2</sup> the spacing's between wires should be approximately 75mm. The spacing can be reduced down to 50mm which will increase the wattage up to 200w/per m<sup>2</sup> if required.
- 3: Mark the floor at even centres approximately 10cm in from the wall, along 2 parallel walls if possible. The centres between markings should be between 50 – 100mm apart depending upon what power per m<sup>2</sup> you require (see stage 2) to provide a marker to run the wire back and forth between, using the supplied fixing tape to hold the heating cable in place. Even spacing's between heating cables are important to provide an even heating pattern over the heated floor area.
- 4: Once the spacing's over the floor have been worked out to suit the length of cable to be fitted (this is important as the cable cannot be cut down to length) the cable can start to be laid. Starting at the power / thermostat position, role out the cable to the start of your markings along one wall. Tape the cable to this mark and proceed to run the cable back and forth between the marks making sure to keep an even spacing between cables. It is important that the heating cable should not overlap or touch at any point. (Please note that the cable is a set length and should not be altered. The spacing between wires should be altered instead to make the cable fit.)
- 5: Once the mat is laid out across the floor this is when the resistance / continuity checks with a Multi meter need to be carried out before, during, and after laying your tiles. (Please refer to your Warranty Card on the back.) Please be sure your fitter fills in your Warranty Card showing the readings before, during, and after installation. Final fitting, commissioning and the Warranty Card must be signed off by a qualified electrician.
- 6: Please note flexible tile adhesive must be used to lay both the insulation boards and tiles. Please take extra care when working and tiling over the heating cables.

7: Once the heating has been installed the floor covering can be installed in the normal way with care taken to not damage the heating cable. When tiling, a full bed of adhesive should be used, dot and dabbing is not recommended as this will not allow the heating to disperse evenly up through the adhesive and floor coverings.

8: Your floor sensor should be located 20mm of the heating element for accurate floor temperature readings or laid evenly between the spacing of each run. Please be sure not to lay the floor probe in areas where hot water pipes are below and ensure the sensor is not in contact with the heating element at any time. Please refer to the thermostat instructions for operation and wiring of the controller.

9: The Black cold tails of the heating mats should be run back to the thermostat position ready to be wired in. If multiple mats are to be connected to one thermostat a junction box may be required to connect the cold ends together before taking the single feeds to be wired into the thermostat. Wiring Procedure. The electrical connection of the system should be carried out by a qualified and suitable electrician. It is their responsibility to make sure all equipment and cables provided are suitable for use with the system and within your building. The system should be installed via a residual current device either from the main consumer unit or via a fused spur and in accordance with all current electrical regulations at time of installation.



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