



# TECH-MAT

## Floor Heating Cable on Mat (FHM)



### DESCRIPTION

Enjoy uniform heat from wall to wall and floor to ceiling without any unwanted odors, germs, noise, dust or dry air. Maintenance free and easy to install under any floor covering.

Tech-Mat floor heating mats are constructed with sturdy, thin flexible heating elements that are bound to fiberglass mats. The durable adhesive mesh backing can be cut between the heating elements to create your desired layout shape.

### FEATURES

- Installs under tile, marble, and laminate.
- Suitable for any new construction or renovation project.
- Complete with adhesive backing for ease of installation.
- 20 year warranty provides worry free warmth and comfort.
- Mat backing can be cut between cables to create desired shape.
- Safe, silent, economical and efficient operation.
- Thin construction adds little more than 1/8" depth to floor.



### SPECIFICATIONS

<b>Voltage</b>	120V, 240/208V.
<b>Wattage</b>	60W to 1440W.
<b>Heat load</b>	12W/sq. ft. max.
<b>Cold lead</b>	10 ft. (3 m).
<b>Cable diameter</b>	1/8" (3.3 mm).
<b>Operating temperature</b>	-15 °C to 80 °C.
<b>Max. exposure temperature</b>	105 °C.

### CABLE CONSTRUCTION

Twin heating conductors with fluoropolymer insulation, metal sheath and PVC outer jacket. Equally spaced on fiberglass mesh with adhesive backing.

### INSTALLATION

Mats can be cut between cables to achieve desired shape. Do not cut cable. Sub-floor must be dry and clean of debris for adhesive mesh backing to properly adhere. Care must be taken when using tools with sharp edges or points to avoid damage to the heating element during installation.

### THERMOSTAT

A thermostat which monitors and controls the floor or room temperature is required. To assure safety, the Tech-Mat should be connected to an approved Ground Fault Circuit Interrupter (GFCI). Contact Britech for selection of thermostats and controls available with an integrated GFCI.

### WARRANTY

Warranted free from manufacturers defect for 20 years. Visit [www.britech.ca](http://www.britech.ca) for limited warranty details.



OPERATING VOLTAGE | 120V

PRODUCT #	WATTS <sup>1</sup>	AMP.	RESISTANCE (OHMS)	LENGTH OF MAT (FT.)	WIDTH OF MAT (FT.)	COVERED SURFACE <sup>2</sup> (SQ. FT.)
FHM120-60	60	0.5	240	3.3	1.5	5
FHM120-120	120	1.0	120	6.7	1.5	10
FHM120-180	180	1.5	80	10.0	1.5	15
FHM120-240	240	2.0	60	13.3	1.5	20
FHM120-300	300	2.5	48	16.7	1.5	25
FHM120-360	360	3.0	40	20.0	1.5	30
FHM120-420	420	3.5	34	23.3	1.5	35
FHM120-480	480	4.0	30	26.7	1.5	40
FHM120-540	540	4.5	27	30.0	1.5	45
FHM120-600	600	5.0	24	33.3	1.5	50
FHM120-720	720	6.0	20	40.0	1.5	60
FHM120-840	840	7.0	17	46.7	1.5	70
FHM120-960	960	8.0	15	53.3	1.5	80

OPERATING VOLTAGE | 240V

PRODUCT #	WATTS <sup>1</sup>	AMP.	RESISTANCE (OHMS)	LENGTH OF MAT (FT.)	WIDTH OF MAT (FT.)	COVERED SURFACE <sup>2</sup> (SQ. FT.)
FHM240-120	120	0.5	480	6.7	1.5	10
FHM240-240	240	1.0	240	13.3	1.5	20
FHM240-360	360	1.5	160	20.0	1.5	30
FHM240-480	480	2.0	120	26.7	1.5	40
FHM240-600	600	2.5	96	33.3	1.5	50
FHM240-720	720	3.0	80	40.0	1.5	60
FHM240-840	840	3.5	69	46.7	1.5	70
FHM240-960	960	4.0	60	53.3	1.5	80
FHM240-1080	1080	4.5	53	60.0	1.5	90
FHM240-1200	1200	5.0	48	66.7	1.5	100
FHM240-1440	1440	6.0	40	80.0	1.5	120

<sup>1</sup> 208V = 75% of wattage at 240V.

<sup>2</sup> Does not represent the surface of the room but rather the surface covered by the floor heating system, excluding fixtures and other spaces to consider.

Mats can be cut between cables to rotate and/or remove excess mesh to fit shape and size of floor. **Do Not Cut Cable.**

