

# ThermoTile® Heating Cable on Uncoupling Membrane for Ceramic, Porcelain, and Natural Stone Tile

### PRODUCT DESCRIPTION

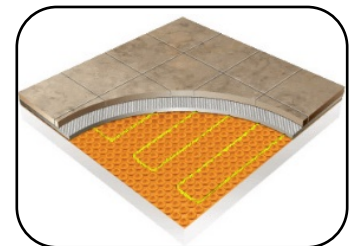
ThermoSoft ThermoTile® heating cable is easily installed under your tile floor with an uncoupling membrane. Combine cable and membrane for improved protection against tile and grout cracking. ThermoTile® heating cable on membrane can be installed under ceramic, porcelain and natural stone tile when embedded in thin-set mortar or self-leveling cement.

### FEATURES AND BENEFITS

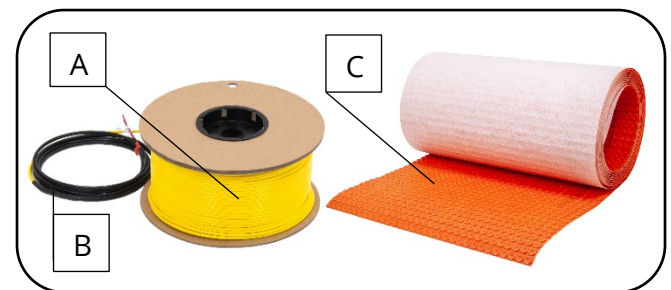
- Combines radiant floor heating with uncoupling technology to prevent tile and grout cracking and quicker, easier positioning of loose heat cable.
- Allows for maximum customization of the heated area simply by placing heat cable between membrane mat studs at 2, 3 or alternating stud spacing.
- The factory-attached lead wire on only one end of the heat cable facilitates the electrical connection.
- Dual cable construction and inner foil shield virtually eliminates electro-magnetic field and interference with electronic appliances.
- Heat cables are easily and uniformly spaced between the membrane mat studs.
- Zones can be controlled independently, room to room.
- Membrane material protects substrate from moisture penetration and prevents tile and grout cracking.
- When used with membranes featuring a thermal break, floor warming response time is improved, and heat loss is reduced.

### APPLICATIONS

- Ceramic Tile
- Porcelain Tile
- Natural Stone Tile



### CONSTRUCTION



#### A. Heating Cable

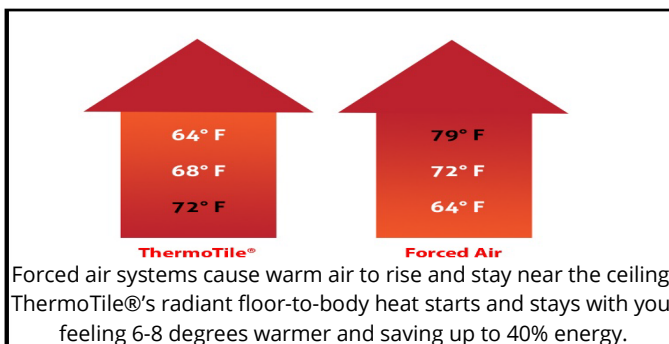
PVC plastic outer coating houses tinned copper wires, AL/PET foil, A-AFLON (FEP) and a double core twin conductor. Its diameter is 1/8" to <3/16" to conduct substantial heat without noticeably raising the floors.

#### B. Lead Wire

10' cold lead wire that connects to energy source.

#### C. Uncoupling Membrane

Reliefs between studs create column-like supports formed by substrate. Lightweight and durable material is easily cut to fit any custom space.



Note: ThermoTile® cable is made in the USA and is not affiliated or specifically endorsed by Schluter Systems®.



### HEATING CABLE ON MEMBRANE IS AVAILABLE IN 120 AND 240 VOLTS IN THESE LENGTHS:

Volts	Model	Length	Watts	Amps	3.6"	3.0"	2.4"	2.0"	
120	TTC28-120	27.8	90.1	0.75	8.3	7	5.6	4.6	
120	TTC39-120	38.9	126.1	1.05	11.7	9.7	7.8	6.5	
120	TTC56-120	55.6	180.1	1.5	16.7	13.9	11.1	9.3	
120	TTC95-120	83.4	270.2	2.25	25	20.9	16.7	13.9	
120	TTC123-120	111.2	360.3	3	33.4	27.8	22.2	18.5	
120	TTC228-120	166.8	540.4	4.5	50	41.7	33.4	27.8	
120	TTC-120	222.4	720.6	6	66.7	55.6	44.5	37.1	
120	HC50-120	278	900.7	7.51	83.4	69.5	55.6	46.3	
120	HC60-120	333.6	1,080.90	9.01	100.1	83.4	66.7	55.6	
120	HC70-120	389.2	1,261.00	10.51	116.8	97.3	77.8	64.9	
240	HC10-240	55.6	180.1	0.75	16.7	13.9	11.1	9.3	
240	HC14-240	77.8	252.2	1.05	23.4	19.5	15.6	13	
240	HC20-240	111.2	360.3	1.5	33.4	27.8	22.2	18.5	
240	HC30-240	166.8	540.4	2.25	50	41.7	33.4	27.8	
240	HC40-240	222.4	720.6	3	66.7	55.6	44.5	37.1	
240	HC60-240	333.6	1,080.90	4.5	100.1	83.4	66.7	55.6	
240	HC80-240	444.8	1,441.20	6	133.4	111.2	89	74.1	
240	HC100-240	556	1,801.40	7.51	166.8	139	111.2	92.7	
240	HC120-240	667.2	2,161.70	9.01	200.2	166.8	133.4	111.2	
<b>W/ft nominal</b>					3.24				
<b>W/ft<sup>2</sup></b>						10.80	12.96	16.20	19.44
<p>*These are approximate figures only. To achieve above results, installation and planning must be done as closely as possible to manual or those stated here. If you run into issues or require technical support, please contact us at (800)308-8057.</p>									

### WARRANTY & MAINTENANCE

When installed according to the installation manual and proper testing has been performed throughout, the system requires no maintenance for the duration of its warrantied life.

The ThermoSoft® ThermoTile® Heating Cable is warrantied for limited lifetime against manufacturer's defects. See [www.ThermoSoft.com](http://www.ThermoSoft.com) for full warranty details.

### TECHNICAL SUPPORT

ThermoSoft® is available at (800)308-8057.

For quotes, layouts and specific technical information, contact us at:

ThermoSoft International Corporation  
701 Corporate Woods Parkway, Vernon Hills, IL 60061  
Support@ThermoSoft.com  
[www.ThermoSoft.com](http://www.ThermoSoft.com)



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the product page



### HEATING CABLE SELECTION GUIDE

#### 1. Select Mat Voltage and Size

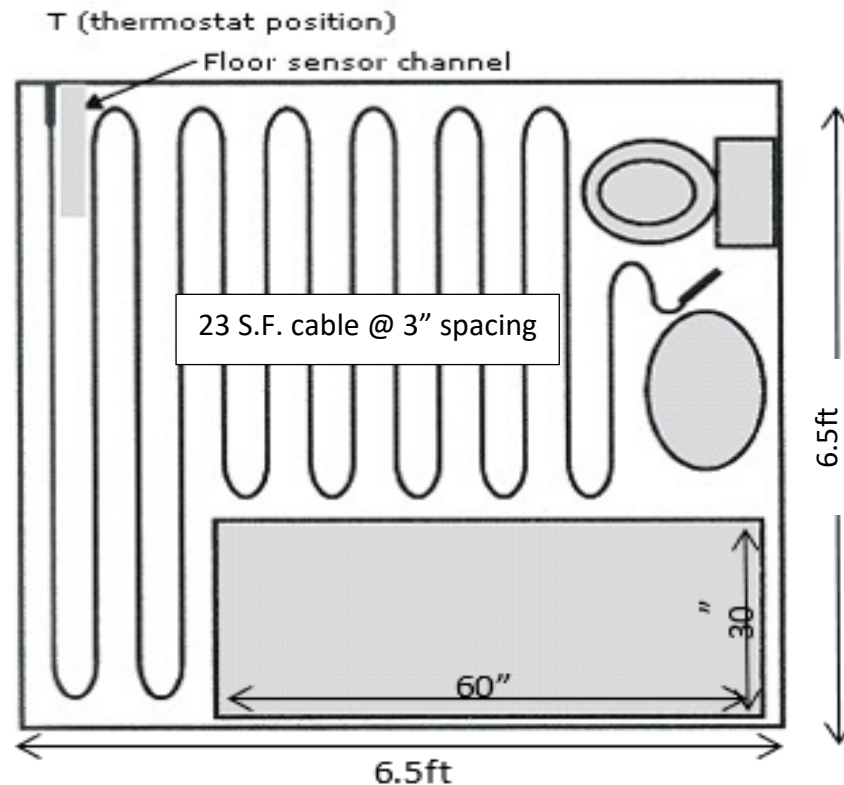
Using the model chart, determine mat voltage and size.

#### 2. Calculate Heating Cable Quantity

According to the heated space's layout and dimensions, calculate how many mats are needed to properly fit the area. Remember to subtract items fixed to the ground such as toilets, dressers and appliances.

#### 3. Determine Circuits/Circuit Protection

Refer to user manual for specifics and directions. Always consult a licensed electrician.



To calculate the product SKU needed:

- Determine desired cable voltage.
- Determine square footage of heated area, excluding 4" clearance around fixtures such as drains, pipes, electrical conduits, and structural members.
- Determine distance between cables (these should be 2" or 3").
- Match up distance between cables to chart in accordance to square footage.
- Select a combination of cable lengths that most closely totals the length required.

To calculate spacing needed, see chart (right).

Power Output	Cable Spacing
15 W/ft <sup>2</sup>	2.0 inches
12 W/ft <sup>2</sup>	3.0 inches

Example:

Cable Voltage: 120 volts total  
 Heated Square Footage: 23 sq. ft. total  
 Distance Between Cables: 3 in. total

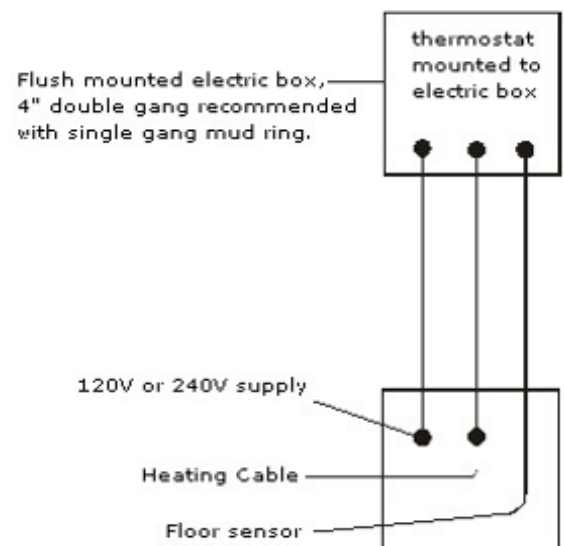
SKU : HC15-120

### IMPORTANT NOTES ON CABLE SELECTION

- Do not overlap heating cables or heat while rolled up.
- Do not cut Heating Cable. Doing so will damage heating wires and result in voided warranty.
- For more information, call (800)308-8057 or visit [www.ThermoSoft.com](http://www.ThermoSoft.com).

### SEE ALSO

- ThermoTile® Heating Mat with Anti-Fracture Holding Mesh for Wood, Laminate, Vinyl and Carpet
- PROVA HEAT-FLEX® Uncoupling Membrane for ThermoTile® Cable
- Schluter DITRA-HEAT® Uncoupling Membrane for ThermoTile® Cable
- Prodeso® Uncoupling Heat Membrane for ThermoTile® Cable



### CONTROLS – THERMOSTATS

Code	Description
UWG4-4999	OJ Wi-Fi Touch Screen Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V Programmable)
UDG4-4999	OJ Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V Programmable with touch screen)
UDG-4999	OJ Thermostat 15A load, 5mA GFCI, 10' floor sensor (120V or 240V Programmable w/air & floor limit)
TH115-AF-GA/U	OJ Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V manual)
TH114-AF-GA/U	Aube Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V Manual)
MTC-2991UFH	OJ Thermostat 15A load, 10' floor sensor (120V Manual)
MTC-1991UFH	OJ Thermostat 15A load, 10' floor sensor (240V Manual)
USG-4000	OJ Power Module 120V or 240V power relay with 5mA GFCI. 15A max load. For use <b>ONLY</b> with OJ Electronics' UDG-4999 Thermostats. (120V or 240V)
ETF-110/99C	OJ Backup Floor Sensor 15' floor sensor for OJ thermostats. A redundant sensor is recommended to be installed since sensors are difficult to replace. If installing a backup sensor, only connect one at a time.
AC112-01/U	Aube Backup Floor Sensor 15' floor sensor for Aube thermostats. A redundant sensor is recommended to be installed since sensors are difficult to replace. If installing a backup sensor, only connect one at a time.

### ACCESSORIES

ThermoSoft® has a complete line of accessories specifically designed for use with Heating Cable for on Uncoupling Membrane. Use only ThermoSoft® ThermoTile® heating cable accessories to ensure the performance of the system.

Code	Description
TS38-0248	ThermoStrips Self-adhesive Synthetic Cork Barrier Strips for Self-Leveling Cement. Size: 3/8" x 24" x 2" Each
FIXFAST	FixFast (Cuttable Cable Hold Down Strap) For Directly Securing Cable to Subfloor, Mortar Bed or Sand Bed. Length: 25ft
DT-105	Easy Tear TacTape 1" Wide, 10 Yards Long Duct Tape
DT-17860	Easy Tear Duct Tape 1-7/8" Wide, 60 Yards Long Tape
INSTALRM	InstAlarm Monitor for Short or Open Circuits During Installation. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TT Safe Install Kit (IK-TAM), TF Install Toolkit (IK-DAMK), TT Basic Install Toolkit (IK-TA)
FLX-BLOCK	Wago Connector 222-415 Terminal Blocks for Multiple Floor Heating Cable Connections
MULTIMTR	Digital Multimeter for Monitoring Electrical Resistance During Installation. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TT Safe Install Kit (IK-TAM), TF Install Toolkit (IK-DAMK)
KNPD-318	Ultra-Light Kneepads for Preventing Cable Damage. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TF Install Toolkit (IK-DAMK)
ETF-110/99C	OJ Backup Floor Sensor 15' for OJ Thermostats
AC112-01/U	Aube Backup Floor Sensor 15' for Aube Thermostats
NEUP	Non-Heated Underlayment Padding for Fill-In Areas – Multiple Sizes Available
EK-X	Heating Cable on Uncoupling Membrane Lead Wire Extension Kits Available
TRWL3812	Anti-Rust Heavy Duty Plastic Trowel With 1/2in. x 3/8in. Notch for Installing Large Tiles (12" and Up) to Avoid Wire Nicking
TRWL3838	Anti-Rust Heavy Duty Plastic Trowel With 3/8in. Square Notch to Avoid Wire Nicking. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TT Safe Install Kit (IK-TAM, TT Basic Install Toolkit (IK-TA)
GG-40120	ThermoGun Glue Gun for Speedy and Simple Mat Installation. Available in TT Deluxe Install Kit (IK-TAMKGS)
GS-11200	ThermoGun Hot Melt Glue Adhesive Sticks for Use with ThermoGun. Size: 8.0" x 7/16"
BBB013	Back Butter Buddy for 12" and Larger Tile Buttering of Thinset Mortar

