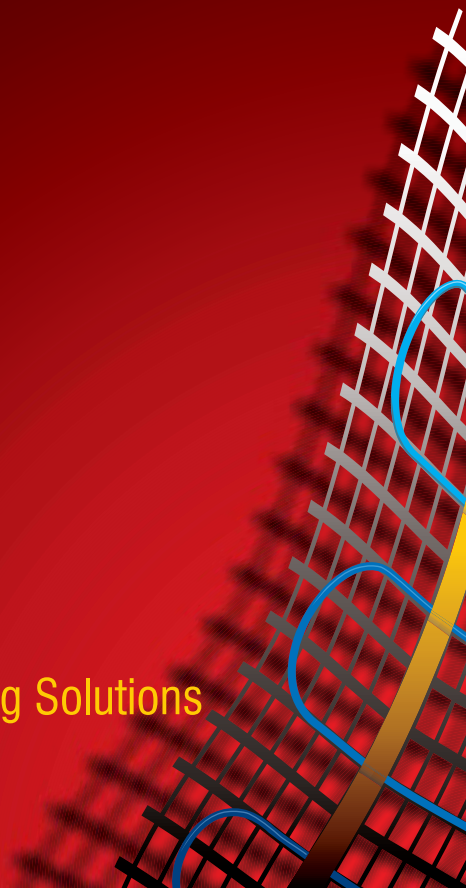




# Thermopads

Domestic & Commercial Heating Solutions






Thermo Group, a name synonymous with Innovation, Excellence and Quality is the manifestation of a seed sown over 50 years back.

With strong footings in Hyderabad, India, Thermo Group today has its reach in every corner of the Globe. The group companies are:

Thermopads - specialists in Industrial, Commercial and Domestic Heating with European ware house facility at UK,  
Thermo Cables - manufacturers of a wide range of cables and  
Thermosystems - an EPC company in the field of Fuel Oil Handling System, Heat Tracing, LP Piping and Misc. Tanks.



Engineering Export Excellence Award continuously from 2007 onwards



Committed to Innovation, Quality and Customer Service, sensitive to Market needs, and backed by over 50 years of experience in the field of heating, Thermopads has the unique distinction of offering a solution to almost every surface heating application.



### **Domestic & Commercial Heating Product Range**

- Undertile Heating Cable
- Undertile Heating Cable Kit
- Floor Heating Mat
- Sticky Floor Heating Mat
- Laminate Floor Heating Mat
- Floor Heating Cable
- Snow Melting Cable
- Snow Melting Mat
- Asphalt Snow Melting Cable / Mat
- Freeze Protection Cable
- Roof & Gutter De-icing Cable
- Concrete Curing Cable
- Mirror Heater
- Thermostat, Accessories

### **Industrial Heating Product\* Range**

**Blazing a trail  
across 50+ countries**

**Spreading warmth  
over 50 years**

**Enjoying warm relations  
with more than 100  
long term clients globally...**

**Catering to industrial,  
commercial and  
comfort heating**

# Under Tile Heating Cables - UTHC

for under tile heating



Thermo Under Tile Heating Cable are useful for heating irregular shaped rooms as an alternate to floor heating mats. With the assistance of a qualified technician, UTHC can be used for tiled, marble or slate flooring. Thermo Under Tile Heating Cable Kit (UTHKT) is a ready to install "Do-It-Yourself" system with all components needed for an installation.



### Construction

Undertile Heating Cable consists of a resistance element provided with a primary insulation of fluoropolymer then covered with metal shielding and final outer sheath of PVC or Fluoropolymer.

- Heating Element & OD : Single Conductor(2.3mm) and Twin Conductor (3.2 mm)
- Standard Wattage : 10 W/m @ 230V AC.
- Maximum Wattage : 18 W/m @ 230V AC.
- Cold Lead : 3.0 mtr

### Product Range

| Catalog Reference No.                              | Length (M) | Watts ( W ) |
|--|------------|-------------|
| <b>Undertile Heating Cable Single 10W/m @ 230V</b> |            |             |
| UTHCS-10W/115                                      | 11.5       | 115         |
| UTHCS-10W/150                                      | 15         | 150         |
| UTHCS-10W/170                                      | 17         | 170         |
| UTHCS-10W/210                                      | 21         | 210         |
| UTHCS-10W/225                                      | 22.5       | 225         |
| UTHCS-10W/290                                      | 29         | 290         |
| UTHCS-10W/350                                      | 35         | 350         |
| UTHCS-10W/400                                      | 40         | 400         |
| UTHCS-10W/480                                      | 48         | 480         |
| UTHCS-10W/560                                      | 56         | 560         |
| UTHCS-10W/700                                      | 70         | 700         |
| UTHCS-10W/820                                      | 82         | 820         |
| UTHCS-10W/1040                                     | 104        | 1040        |
| UTHCS-10W/1140                                     | 114        | 1140        |
| UTHCS-10W/1250                                     | 125        | 1250        |
| UTHCS-10W/1450                                     | 145        | 1450        |
| UTHCS-10W/1700                                     | 171        | 1700        |
| UTHCS-10W/2000                                     | 195        | 2000        |
| UTHCS-10W/2400                                     | 242        | 2400        |
| UTHCS-10W/3000                                     | 297        | 3000        |

### Thermopads Standard Accessories - Thermostat

TS-PE-16 is a digital thermostat capable of switching on the heating system at pre-determined times and can be programmed for one week.

### Features

|                    |  |
|--------------------|--|
| <b>Compliance</b>  | Standards: EN 60335 / EN 62233 / IEC 60800, CSA - C22.2 No.130, UL1683   |
| <b>Approvals</b>   | Intertek SEMKO, SGS Fimko, EAC & UL  |
| <b>Flexibility</b> | Can be laid on any area, or any floor layout, as may be desired.   |
| <b>Reliability</b> | A uniquely designed hot to cold junction makes the termination 100% foolproof.   |
| <b>Safety</b>      | Thermostats backed by optional over current protection and GFCI, ensures total protection.                             |
| <b>DIY</b>         | Do-It-Yourself kits - UTHKT, with detailed instruction manuals, makes the Under Floor Heating Kits very user-friendly. |

| Catalog Reference No.                            | Length (M) | Watts ( W ) |
|--|------------|-------------|
| <b>Undertile Heating Cable Twin 10W/m @ 230V</b> |            |             |
| UTHCT-10W/115                                    | 11.5       | 115         |
| UTHCT-10W/140                                    | 14         | 140         |
| UTHCT-10W/170                                    | 17         | 170         |
| UTHCT-10W/210                                    | 21         | 210         |
| UTHCT-10W/225                                    | 22.5       | 225         |
| UTHCT-10W/290                                    | 29         | 290         |
| UTHCT-10W/350                                    | 35         | 350         |
| UTHCT-10W/400                                    | 40         | 400         |
| UTHCT-10W/480                                    | 48         | 480         |
| UTHCT-10W/560                                    | 56         | 560         |
| UTHCT-10W/640                                    | 64         | 640         |
| UTHCT-10W/700                                    | 70         | 700         |
| UTHCT-10W/760                                    | 76         | 760         |
| UTHCT-10W/820                                    | 82         | 820         |
| UTHCT-10W/1040                                   | 104        | 1040        |
| UTHCT-10W/1140                                   | 114        | 1140        |
| UTHCT-10W/1250                                   | 125        | 1250        |
| UTHCT-10W/1450                                   | 145        | 1450        |
| UTHCT-10W/1600                                   | 160        | 1600        |
| UTHCT-10W/1800                                   | 180        | 1800        |

Note: 1. For Underfloor Heating Kits replace UTHCS by UTHCSKT and UTHCT by UTHCTKT in the above mentioned catalogue nos.  
 2. For North America Range, Please contact us at [info@thermopads.com](mailto:info@thermopads.com)

Can also be custom-built as per specific requirements

# Floor Heating Mats - SFHM

for comfort heating

**Thermo Floor Heating Mats are suited to generate heat under tile or laminate floors in bathrooms, kitchens and the entire house. Owing to their thin construction and ease of installation they are ideally suited for renovation of homes. SFHM are easy to install products without requiring technicians to plan their layouts.**





### Construction

**FHM:** Floor Heating Mats comprise of flexible, robust fiber-glass mats that carry thin heating elements uniformly fixed on it. These elements are provided with primary fluoropolymer insulation, metal shielding and sheathing of PVC or fluoropolymer.

**SFHM:** Thermo Sticky Floor Heating mat with adhesive backed mesh Heating Element & OD : Single Conductor (2.3mm) and Twin Conductor (3.2 mm)

Standard Wattage : Available in 100, 150 & 200 W/ sq.m  
Cold Lead : 3.0 mtr

### Features

|                   |   |
|-------------------|---|
| <b>Compliance</b> | Standards: EN / IEC 60335 / EN 62233 / IEC 60800 / VDE 0700 / CSA - C22.2 No.130, UL1683.   |
| <b>Approvals</b>  | Intertek SEMKO, SGS Fimko, VDE, TUV, EAC & UL   |
| <b>Comfort</b>    | Close and uniform spacing of heating cables, associated with thermostat controls to select temperature requirements, provides higher comfort levels.  |
| <b>Safety</b>     | Thermostats backed by optional over current protection and GFCI, ensures total protection and safety  |
| <b>Range</b>      | Standard range of heat loads available in 100 W/m <sup>2</sup> , 150 W/m <sup>2</sup> & 200 W/m <sup>2</sup> . Also various sizes for different kinds / sizes of flooring available as per given product range. |

### Product Range

| Length (M) | Width (M) | Catalog Reference No. | Watts (W) | Catalog Reference No. | Watts (W) | Catalog Reference No. | Watts (W) |
|------------|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|
| 2.0        | 0.5       | S FHMx-100W/100       | 100       | S FHMx-150W/150       | 150       | S FHMx-200W/200       | 200       |
| 3.0        | 0.5       | S FHMx-100W/150       | 150       | S FHMx-150W/225       | 225       | S FHMx-200W/300       | 300       |
| 4.0        | 0.5       | S FHMx-100W/200       | 200       | S FHMx-150W/300       | 300       | S FHMx-200W/400       | 400       |
| 5.0        | 0.5       | S FHMx-100W/250       | 250       | S FHMx-150W/375       | 375       | S FHMx-200W/500       | 500       |
| 6.0        | 0.5       | S FHMx-100W/300       | 300       | S FHMx-150W/450       | 450       | S FHMx-200W/600       | 600       |
| 7.0        | 0.5       | S FHMx-100W/350       | 350       | S FHMx-150W/525       | 525       | S FHMx-200W/700       | 700       |
| 8.0        | 0.5       | S FHMx-100W/400       | 400       | S FHMx-150W/600       | 600       | S FHMx-200W/800       | 800       |
| 9.0        | 0.5       | S FHMx-100W/450       | 450       | S FHMx-150W/675       | 675       | S FHMx-200W/900       | 900       |
| 10.0       | 0.5       | S FHMx-100W/500       | 500       | S FHMx-150W/750       | 750       | S FHMx-200W/1000      | 1000      |
| 12.0       | 0.5       | S FHMx-100W/600       | 600       | S FHMx-150W/900       | 900       | S FHMx-200W/1200      | 1200      |
| 14.0       | 0.5       | S FHMx-100W/700       | 700       | S FHMx-150W/1050      | 1050      | S FHMx-200W/1400      | 1400      |
| 16.0       | 0.5       | S FHMx-100W/800       | 800       | S FHMx-150W/1200      | 1200      | S FHMx-200W/1600      | 1600      |
| 18.0       | 0.5       | S FHMx-100W/900       | 900       | S FHMx-150W/1350      | 1350      | S FHMx-200W/1800      | 1800      |
| 20.0       | 0.5       | S FHMx-100W/1000      | 1000      | S FHMx-150W/1500      | 1500      | S FHMx-200W/2000      | 2000      |
| 22.0       | 0.5       | S FHMx-100W/1100      | 1100      | S FHMx-150W/1650      | 1650      | S FHMx-200W/2200      | 2200      |
| 24.0       | 0.5       | S FHMx-100W/1200      | 1200      | S FHMx-150W/1800      | 1800      | S FHMx-200W/2400      | 2400      |

Can also be custom-built as per specific requirements.

### Thermopads Standard Accessories - Thermostat

TS-PE-16 is a digital thermostat capable of switching on the heating system at pre-determined times and can be programmed for one week.

Prefix 'S' for Sticky Floor Heating Mat. Ex. SFHMx - 100W/100

Note : 1. X = T for twin conductor heating cables

X = S for single conductor heating cables

2. For North America Range, Please contact us at [info@thermopads.com](mailto:info@thermopads.com)

# Laminate Floor Heating Mats - ThermoLAM

for laminate floors



ThermoLAM is a product specially engineered for easy installation, safety and uniform heating of laminate, engineered wood, glued hardwood and other floating floors. Its special materials ensure no 'Hot-Spots' or localized heating problems.





### Construction

ThermoLam comprises of a twin conductor heating element having primary insulation of Fluoropolymer - sandwiched between two layers of specially Reinforced Aluminium Foil.

Standard Wattage : 80 W/Sq. mtr and 140 W/ Sq. mtr  
 Width of Mat : 500mm  
 Cold Lead : 3.0 mtr

### Features

|                      |  |
|----------------------|--|
| <b>Compliance</b>    | Standards: EN / IEC 60335 / EN 62233/ CSA - C22.2 No.130, UL1683   |
| <b>Approvals</b>     | Intertek SEMKO, EAC & UL   |
| <b>User Friendly</b> | Ease of laying - the mat can be cut & turned to fit the room.  |
| <b>Comfort</b>       | Ultimate Warm Experience - Uniform Heating due to Aluminium Foil and Thermostat Control.   |
| <b>Safety</b>        | Unique construction ensures 100% Earth Protection.   |
| <b>Eco-Friendly</b>  | Over 90% of ThermoLAM consists of metal, primarily Aluminium, which is now considered as a "Green-Metal". Also it does not emit any green-house gases while heating. |

### Product Range (80W)

| Catalog No.   | Length (M) | Width (M) | Area (Sq.m) | Watts (W) |
|---------------|------------|-----------|-------------|-----------|
| LFM-T-80W/80  | 2          | 0.5       | 1.0         | 80        |
| LFM-T-80W/120 | 3          | 0.5       | 1.5         | 120       |
| LFM-T-80W/160 | 4          | 0.5       | 2.0         | 160       |
| LFM-T-80W/200 | 5          | 0.5       | 2.5         | 200       |
| LFM-T-80W/240 | 6          | 0.5       | 3.0         | 240       |
| LFM-T-80W/280 | 7          | 0.5       | 3.5         | 280       |
| LFM-T-80W/320 | 8          | 0.5       | 4.0         | 320       |
| LFM-T-80W/360 | 9          | 0.5       | 4.5         | 360       |
| LFM-T-80W/400 | 10         | 0.5       | 5.0         | 400       |
| LFM-T-80W/480 | 12         | 0.5       | 6.0         | 480       |
| LFM-T-80W/560 | 14         | 0.5       | 7.0         | 560       |
| LFM-T-80W/640 | 16         | 0.5       | 8.0         | 640       |
| LFM-T-80W/720 | 18         | 0.5       | 9.0         | 720       |
| LFM-T-80W/800 | 20         | 0.5       | 10.0        | 800       |
| LFM-T-80W/880 | 22         | 0.5       | 11.0        | 880       |
| LFM-T-80W/960 | 24         | 0.5       | 12.0        | 960       |

### Product Range (140W)

| Catalog No.     | Length (M) | Width (M) | Area (Sq.m) | Watts (W) |
|-----------------|------------|-----------|-------------|-----------|
| LFM-T-140W/140  | 2          | 0.5       | 1.0         | 140       |
| LFM-T-140W/210  | 3          | 0.5       | 1.5         | 210       |
| LFM-T-140W/280  | 4          | 0.5       | 2.0         | 280       |
| LFM-T-140W/350  | 5          | 0.5       | 2.5         | 350       |
| LFM-T-140W/420  | 6          | 0.5       | 3.0         | 420       |
| LFM-T-140W/490  | 7          | 0.5       | 3.5         | 490       |
| LFM-T-140W/560  | 8          | 0.5       | 4.0         | 560       |
| LFM-T-140W/630  | 9          | 0.5       | 4.5         | 630       |
| LFM-T-140W/700  | 10         | 0.5       | 5.0         | 700       |
| LFM-T-140W/840  | 12         | 0.5       | 6.0         | 840       |
| LFM-T-140W/980  | 14         | 0.5       | 7.0         | 980       |
| LFM-T-140W/1120 | 16         | 0.5       | 8.0         | 1120      |
| LFM-T-140W/1260 | 18         | 0.5       | 9.0         | 1260      |
| LFM-T-140W/1400 | 20         | 0.5       | 10.0        | 1400      |
| LFM-T-140W/1540 | 22         | 0.5       | 11.0        | 1540      |
| LFM-T-140W/1680 | 24         | 0.5       | 12.0        | 1680      |

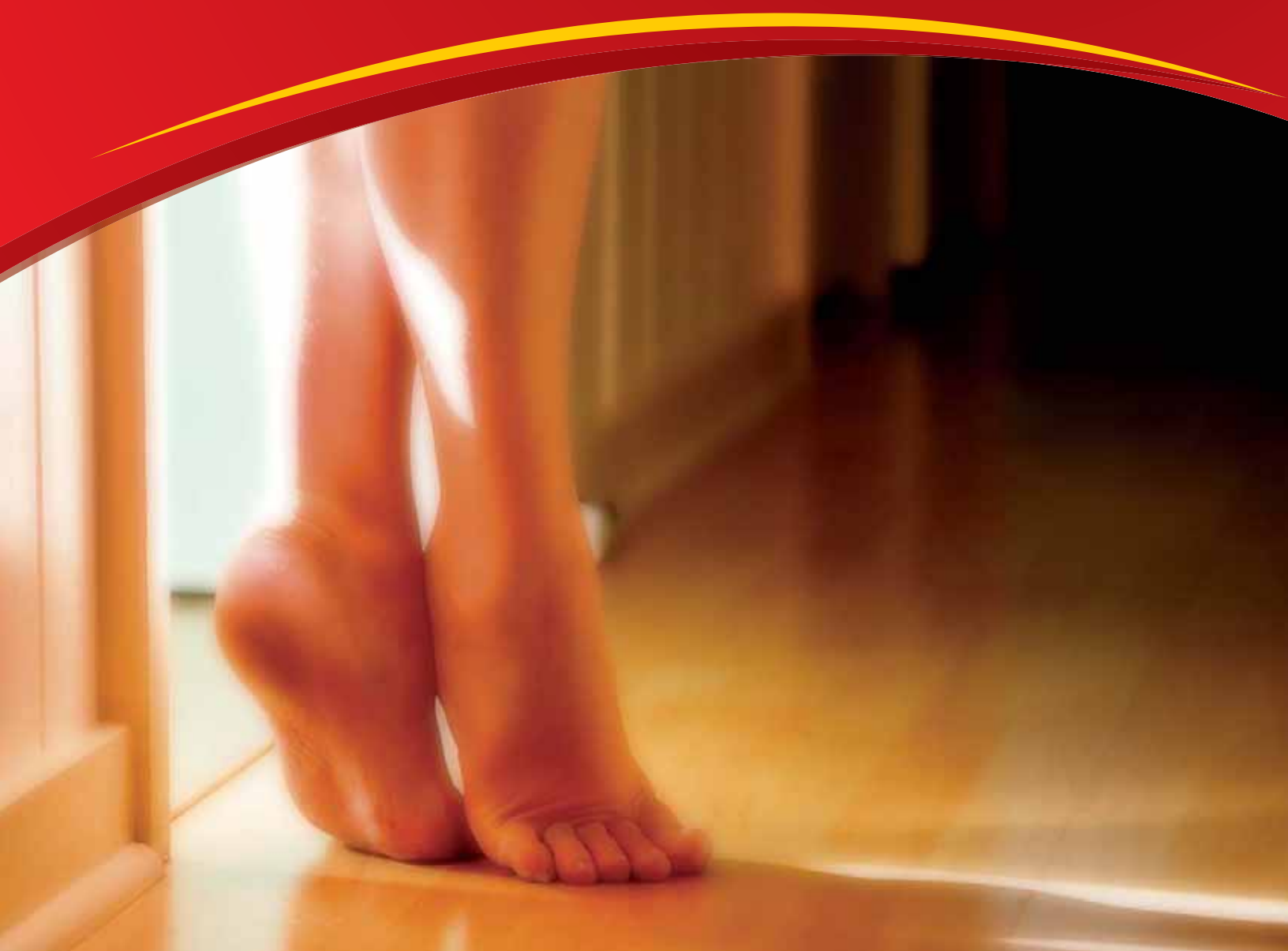
Can also be custom-built as per specific requirements.

### Thermopads Standard Accessories - Thermostat

TS-PE-16 is a digital thermostat capable of switching on the heating system at pre-determined times and can be programmed for one week.

# Floor Heating Cables - FHC

for in concrete or slab heating



Thermo Floor Heating Cables are robust and tough cable which can be embedded in the concrete slab floors for floor heating and snow-melting applications. FHC are ideally suited for installation in large areas like homes, green houses, sports fields, warehouses, shopping malls or factories.



### Construction

Floor Heating Cables comprise of resistance elements provided with primary fluoropolymer or cross linked PE insulation, metal shielding and outer sheathing of polyolefin.

- Heating Element & OD : Single Conductor (4.5 mm) and Twin Conductor (5.3 mm)
- Standard Wattage : Available in 17 W/m  
Maximum Wattage: 20 W/m
- Cold Lead : 3.0 mtr

### Features

|                    |  |
|--------------------|--|
| <b>Compliance</b>  | Standards: IEC 60800 Class M2, CSA- C22.2 No. 130, IEEE 515.1, UL 515, UL 1673   |
| <b>Approvals</b>   | SGS Fimko, EAC, VDE & CSA  |
| <b>Sturdy</b>      | Robust fluoropolymer insulation with metal shielding enables rough usage. A uniquely designed hot to cold junction makes the termination 100% foolproof. |
| <b>Flexibility</b> | Can be laid on any area or any layout, as may be desired.  |
| <b>Safety</b>      | Thermostats backed by optional over current protection and GFCI, ensure total protection and safety.   |

### Product Range

| Catalog Reference No.                         | Length (M) | Watts ( W ) |
|---|------------|-------------|
| <b>Floor Heating Cable Twin 17 W/m - 230V</b> |            |             |
| FHCT- 17W/170                                 | 10         | 170         |
| FHCT- 17W/250                                 | 15         | 250         |
| FHCT- 17W/350                                 | 21         | 350         |
| FHCT- 17W/450                                 | 27         | 450         |
| FHCT- 17W/600                                 | 35         | 600         |
| FHCT- 17W/700                                 | 41         | 700         |
| FHCT- 17W/900                                 | 54         | 900         |
| FHCT- 17W/1100                                | 65         | 1100        |
| FHCT- 17W/1350                                | 79         | 1350        |
| FHCT- 17W/1450                                | 84         | 1450        |
| FHCT- 17W/1650                                | 96         | 1650        |
| FHCT- 17W/1900                                | 112        | 1900        |
| FHCT- 17W/2400                                | 141        | 2400        |
| FHCT- 17W/2900                                | 170        | 2900        |
| FHCT- 17W/3100                                | 183        | 3100        |

| Catalog Reference No.                           | Length (M) | Watts ( W ) |
|---|------------|-------------|
| <b>Floor Heating Cable Single 17 W/m - 230V</b> |            |             |
| FHCS - 17W/170                                  | 10         | 170         |
| FHCS - 17W/250                                  | 15         | 250         |
| FHCS - 17W/350                                  | 21         | 350         |
| FHCS - 17W/450                                  | 27         | 450         |
| FHCS - 17W/600                                  | 35         | 600         |
| FHCS - 17W/700                                  | 41         | 700         |
| FHCS - 17W/900                                  | 54         | 900         |
| FHCS - 17W/1100                                 | 65         | 1100        |
| FHCS - 17W/1350                                 | 79         | 1350        |
| FHCS - 17W/1450                                 | 84         | 1450        |
| FHCS - 17W/1600                                 | 94         | 1600        |
| FHCS - 17W/1900                                 | 112        | 1900        |
| FHCS - 17W/2300                                 | 135        | 2300        |
| FHCS - 17W/3150                                 | 185        | 3150        |

Can also be custom-built as per specific requirements



Floor Heating Cable is now available with invisible Hot & Cold connection. This feature can be provided based on customer requirement.

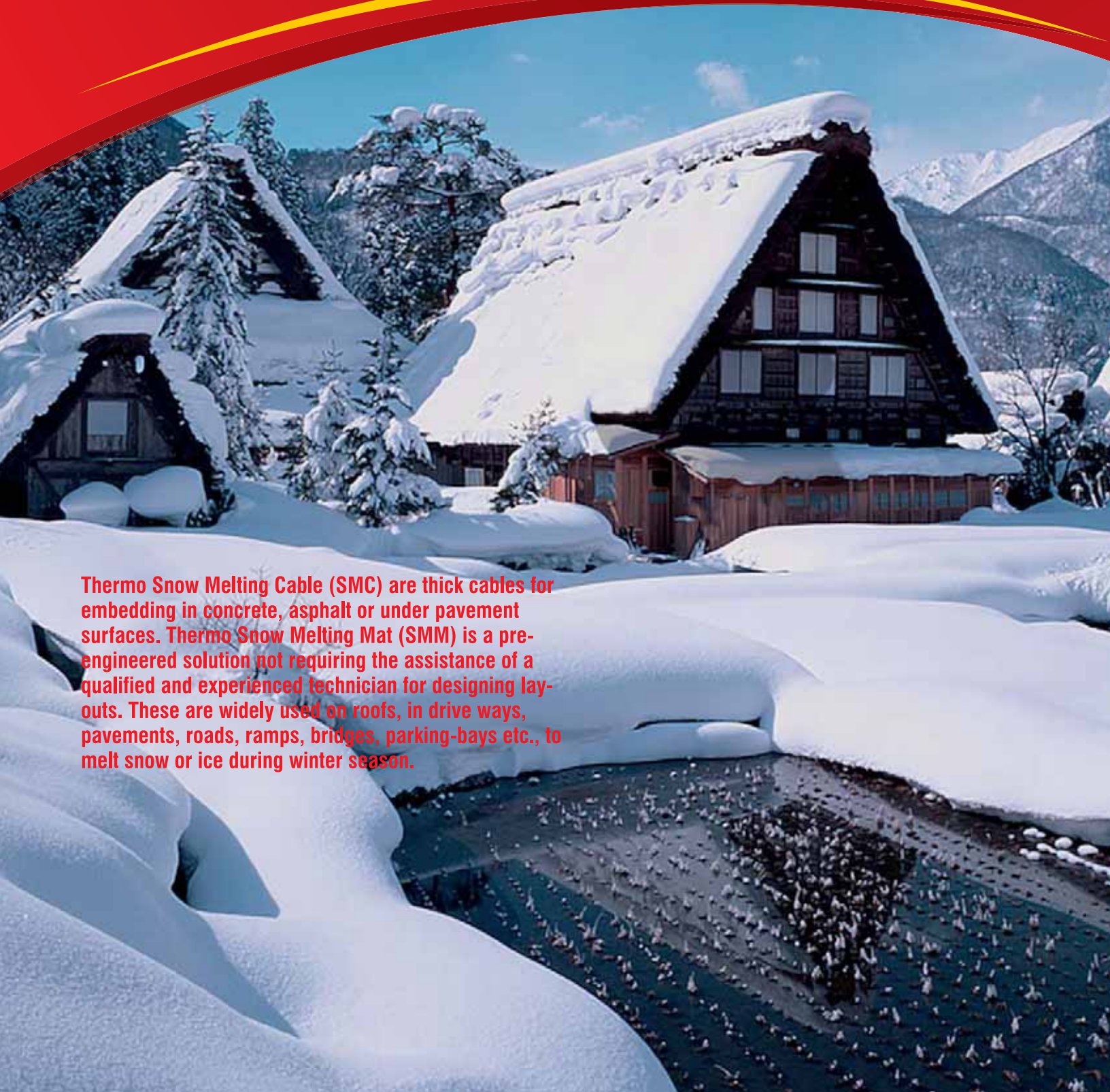
### Cable Fixing Strips



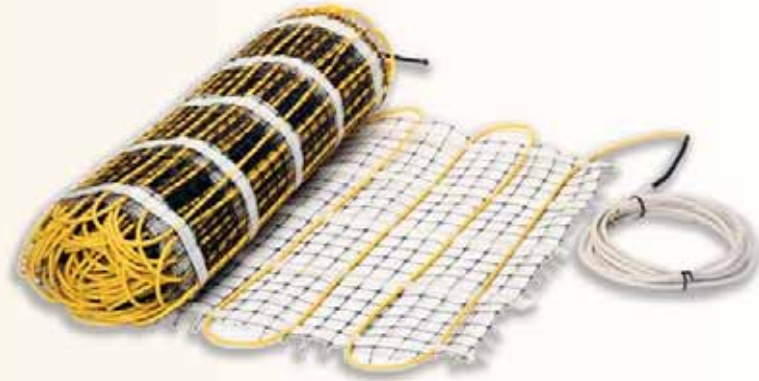
This strip can be used as a metal installation attachment for heating cable up to 6.5mm diameter. The fixing strip has flexible c-c spacing in steps of 25 mm, hence allows variable watt/m<sup>2</sup> outputs. Standard packing available in rolls of 25 mtrs.

# Snow Melting Cables / Mats - SMC / SMM

for snow melting and de-icing outdoors



Thermo Snow Melting Cable (SMC) are thick cables for embedding in concrete, asphalt or under pavement surfaces. Thermo Snow Melting Mat (SMM) is a pre-engineered solution not requiring the assistance of a qualified and experienced technician for designing layouts. These are widely used on roofs, in drive ways, pavements, roads, ramps, bridges, parking-bays etc., to melt snow or ice during winter season.



### Construction

Snow Melting Cable consists of a resistance element provided with primary fluoropolymer insulation or cross heated PE, metal shielding and secondary insulation of Polyolefin. Snow Melting Mats consists of flexible plastic grid that carry heating cable uniformly fixed on it.

- Heating Element & OD : Single Conductor (5mm) and Twin Conductor (6 mm)
- Standard Wattage : 30 W/m (SMC) and 350 W/Sq. Mtr. (SMM) @ 230V AC. Also available in 400V AC rating.
- Maximum Wattage : 40 W/m
- Cold Lead : 5.0 mtr

### Features

|                             |  |
|-----------------------------|--|
| <b>Compliance</b>           | Standards: IEC 60800 Class M2, CSA- C22.2 No. 130, IEEE 515.1, UL 515, UL 1673   |
| <b>Approvals</b>            | SGS Fimko, EAC & CSA   |
| <b>Tough &amp; Reliable</b> | The outer metallic sheath and the overjacket - which is suitable for low temperature, UV resistant and environmental friendly, makes them suitable for outdoor application like heating roofs and for embedding in concrete for pavements. |
| <b>Cost-Effective</b>       | Provides heat where required, resulting in optimal heat utilization and minimal losses.  |
| <b>Safety</b>               | The Cables / Mats are installed with Thermostat backed by optional over current protection and GFCI - ensuring total protection and safety.  |

### Product Range : Cables

| Catalog Reference No.  | Length (M) | Watts ( W ) |
|--|------------|-------------|
| <b>Snow Melting Cable, Single/Twin Conductor Rating: 30W/M at 230VAC</b> |            |             |
| SMCX-30W/850   | 29         | 850         |
| SMCX- 30W/1100   | 38         | 1100        |
| SMCX- 30W/1400   | 47         | 1400        |
| SMCX- 30W/1700   | 57         | 1700        |
| SMCX- 30W/2000   | 67         | 2000        |
| SMCX- 30W/2250   | 75         | 2250        |
| SMCX- 30W/2500   | 84         | 2500        |
| SMCX- 30W/2800   | 94         | 2800        |
| SMCX- 30W/3350   | 112        | 3350        |
| SMCX- 30W/4000   | 134        | 4000        |
| SMCX- 30W/4500   | 150        | 4500        |
| SMCX- 30W/5000   | 168        | 5000        |

### Product Range : Mats

| Catalog Reference No.   | Width (M) | Length (M) | Area (Sq.m) | Watts (W) |
|---|-----------|------------|-------------|-----------|
| <b>Snow Melting Mat, Single / Twin Conductor, Rating: 350W/SQ.M at 230VAC</b> |           |            |             |           |
| SMMX-350W/850   | 0.4       | 6          | 2.4         | 850       |
| SMMX- 350W/1100   | 0.4       | 8          | 3.2         | 1100      |
| SMMX- 350W/1400   | 0.4       | 10         | 4.0         | 1400      |
| SMMX- 350W/1700   | 0.4       | 12         | 4.8         | 1700      |
| SMMX- 350W/2000   | 0.4       | 14         | 5.6         | 2000      |
| SMMX- 350W/2250   | 0.4       | 16         | 6.4         | 2250      |
| SMMX- 350W/2500   | 0.4       | 18         | 7.2         | 2500      |
| SMMX- 350W/2800   | 0.4       | 20         | 8.0         | 2800      |
| SMMX- 350W/3100   | 0.4       | 22         | 8.8         | 3100      |
| SMMX- 350W/3350   | 0.4       | 24         | 9.6         | 3350      |
| SMMX- 350W/2800   | 0.8       | 10         | 8.0         | 2800      |
| SMMX- 350W/3350   | 0.8       | 12         | 9.6         | 3350      |

Can also be custom-built as per specific requirements.



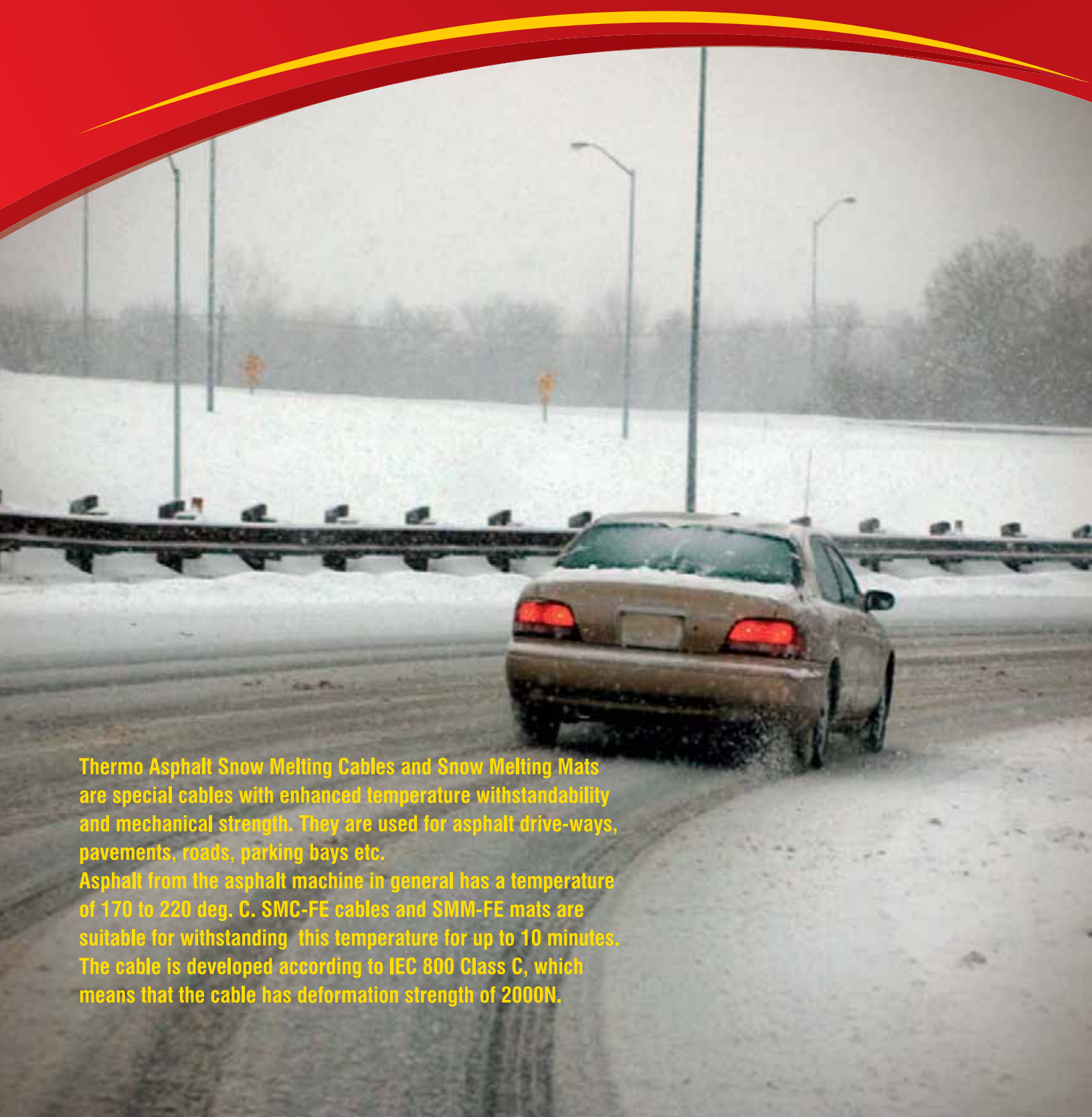
Snow Melting Cable / Mat is now available with invisible Hot & Cold connection  
This feature can be provided based on customer requirement.

Note: 1. X=T for twin conductor heating cables / mats. X=S for single conductor heating cables / mats  
2. For North America Range, Please contact us at [info@thermopads.com](mailto:info@thermopads.com)

N.A range Heating Element OD 7mm. Maximum Wattage 40w/m, Maximum Voltage 600V

# Asphalt Snow Melting Cables / Mats - SMC-FE / SMM-FE

for direct Asphalt Application



Thermo Asphalt Snow Melting Cables and Snow Melting Mats are special cables with enhanced temperature withstandability and mechanical strength. They are used for asphalt drive-ways, pavements, roads, parking bays etc.

Asphalt from the asphalt machine in general has a temperature of 170 to 220 deg. C. SMC-FE cables and SMM-FE mats are suitable for withstanding this temperature for up to 10 minutes. The cable is developed according to IEC 800 Class C, which means that the cable has deformation strength of 2000N.



### Construction

Asphalt SMC comprises of a resistance element with primary insulation of Fluoropolymer, metal shielding and secondary insulation of high temperature material. The Asphalt SMM comprises of flexible plastic grid carrying heating cable uniformly fixed on it.

Heating Element & OD : Single Conductor (6.5mm) & Twin Conductor (7.5mm)

Standard Wattage : 30 W/m (SMC-FE) and 350 W/Sq.Mtr. (SMM-FE) @ 230V AC & 400V AC

Maximum Wattage : 40 W/m

Cold Lead : 5.0 mtr

### Features

|                       |   |
|-----------------------|---|
| <b>Compliance</b>     | Standards: IEC 60800 Class M2, CSA- C22.2 No. 130, IEEE 515.1, UL 515, UL 1673  |
| <b>Approvals</b>      | SGS Fimko, EAC & CSA  |
| <b>Comfort</b>        | High Temperature withstandability and deformation strength makes them suitable for toughest of applications.                                |
| <b>Cost-Effective</b> | Suitable for direct Asphalt application - thus reducing laying costs.   |
| <b>Safety</b>         | The Cables / Mats are installed with Thermostat backed by optional over current protection and GFCI - ensuring total protection and safety. |

### Product Range: Cables

| Catalog Reference No.  | Length (M) | Watts ( W ) |
|--|------------|-------------|
| <b>Snow Melting Cable, Single / Twin Conductor Rating: 30W/M at 230VAC</b> |            |             |
| SMCX-FE- 30W/850   | 29         | 850         |
| SMCX-FE- 30W/1100  | 38         | 1100        |
| SMCX-FE- 30W/1400  | 47         | 1400        |
| SMCX-FE- 30W/1700  | 57         | 1700        |
| SMCX-FE- 30W/2000  | 67         | 2000        |
| SMCX-FE- 30W/2250  | 75         | 2250        |
| SMCX-FE- 30W/2500  | 84         | 2500        |
| SMCX-FE- 30W/2800  | 94         | 2800        |
| SMCX-FE- 30W/3350  | 112        | 3350        |
| SMCX-FE- 30W/4000  | 134        | 4000        |
| SMCX-FE- 30W/4500  | 150        | 4500        |
| SMCX-FE- 30W/5000  | 168        | 5000        |

### Product Range: Mats

| Catalog Reference No.  | Width (M) | Length (M) | Area (Sq.m) | Watts ( W ) |
|--|-----------|------------|-------------|-------------|
| <b>Snow Melting Mat, Single / Twin Conductor Rating: 350W/SQ.M at 230VAC</b> |           |            |             |             |
| SMMX-FE- 350W/850  | 0.4       | 6          | 2.4         | 850         |
| SMMX-FE- 350W/1100   | 0.4       | 8          | 3.2         | 1100        |
| SMMX-FE- 350W/1400   | 0.4       | 10         | 4.0         | 1400        |
| SMMX-FE- 350W/1700   | 0.4       | 12         | 4.8         | 1700        |
| SMMX-FE- 350W/2000   | 0.4       | 14         | 5.6         | 2000        |
| SMMX-FE- 350W/2250   | 0.4       | 16         | 6.4         | 2250        |
| SMMX-FE- 350W/2500   | 0.4       | 18         | 7.2         | 2500        |
| SMMX-FE- 350W/2800   | 0.4       | 20         | 8.0         | 2800        |
| SMMX-FE- 350W/3100   | 0.4       | 22         | 8.8         | 3100        |
| SMMX-FE- 350W/3350   | 0.4       | 24         | 9.6         | 3350        |
| SMMX-FE- 350W/2800   | 0.8       | 10         | 8.0         | 2800        |
| SMMX-FE- 350W/3350   | 0.8       | 12         | 9.6         | 3350        |

Can also be custom-built as per specific requirements.

Note: 1. X=T for twin conductor heating cables / mats. X=S for single conductor heating cables / mats

2. For North America Range, Please contact us at [info@thermopads.com](mailto:info@thermopads.com)


N.A range Heating Element OD 7mm. Maximum Wattage 40w/m, Maximum Voltage 600V



Asphalt Snow Melting Cable / Mat is now available with invisible Hot & Cold connection. This feature can be provided based on customer requirement.

# Freeze Protection Cables - FPC-C/CT/SR

for frost protection



Thermo Freeze Protection Cables are designed for "on pipe" as well as "in pipe" applications for domestic and commercial requirements to protect water from freezing. These robust and tough cables are adaptable to all areas where natural frost protection cannot be achieved.





## Features

|                       |  |
|-----------------------|--|
| <b>Compliance</b>     | "Standards: FPC & FPC-SR : IEC 60800, FPC-CT : IEC 60800, CAN / CSA 22.2 No. 130, ANSI / IEEE 515.1.   |
| <b>Approvals</b>      | SGS Fimko, VDE, EAC & CSA.   |
| <b>Cost-Effective</b> | FPC-CT - with in-built temperature limiters, and FPC-SR the self regulating type, provide heat when required, resulting in optimal heat utilization. |
| <b>Sturdy</b>         | Robust fluoropolymer insulation and metal shielding enables its use in tough conditions. UV Resistant and Environment friendly.                      |
| <b>Reliability</b>    | A uniquely designed hot to cold junction makes the termination 100% robust.  |

## Specifications

|                                 | FPC-C   | FPC-CT<br>(controlled with in-built temperature limiter)   | FPC-SR<br>(self-regulating)  |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
|---------------------------------|---|--|--|-----------------|--|----------|--|--------------|--|---|----|----------------------|-------|---|---------|-----|---|----|-------|---|----|
| <b>Application</b>              | "On pipe" as well as "In pipe" applications   | "On pipe" applications   | "On pipe" as well as "In pipe" applications  |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
| <b>Construction</b>             | Constant Watt type Twin conductor series resistance heating cable comprising of multistrand or coiled heating element with primary insulation of fluoropolymer or cross linked PE, metal sheathing and Polyolefin outer jacket. | Constant Watt type Twin conductor series resistance heating cable comprising of resistance elements with primary insulation of Fluoropolymer or cross linked PE, metal sheathing and Polyolefin outer jacket. Inbuilt preset Thermostat / Temperature limiter to operate at a factory set temperature to "switch on" at 5°C and "switch off" at 15°C | Self-regulating parallel type heating cable comprising of a semi-conductive heating core extruded over stranded plated copper bus wires and provided with primary insulation of Thermo Plastic Elastomer, then metal sheathing and Fluoropolymer/TPE outer jacket. Operating Temp. - Max. 65 deg C.<br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Voltage AC 230V</td> <td colspan="2">FPC-SR10</td> </tr> <tr> <td>Breaker Size</td> <td></td> <td>A</td> <td>10</td> </tr> <tr> <td rowspan="3">Start-up Temperature</td> <td>10° C</td> <td>M</td> <td>100/60*</td> </tr> <tr> <td>0°C</td> <td>M</td> <td>95</td> </tr> <tr> <td>-20°C</td> <td>M</td> <td>77</td> </tr> </table> | Voltage AC 230V |  | FPC-SR10 |  | Breaker Size |  | A | 10 | Start-up Temperature | 10° C | M | 100/60* | 0°C | M | 95 | -20°C | M | 77 |
| Voltage AC 230V                 |   | FPC-SR10   |  |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
| Breaker Size                    |   | A  | 10   |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
| Start-up Temperature            | 10° C   | M  | 100/60*  |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
|                                 | 0°C   | M  | 95   |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
|                                 | -20°C   | M  | 77   |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
| <b>Cold Leads</b>               | 2.0m length with Plug   |  |  |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
| <b>Standard Range @ 230V AC</b> | 10 W/m 2m to 135m lengths<br>16 W/m 1.6m to 106.7m lengths<br>25 W/m 1.3m TO 85.4m lengths  | 10W/M & 15W/M at 10°C 2m to 25m lengths  |  |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |
| <b>Catalog Nos.</b>             | FPC-C-'X'W/'Y'<br>'X'=W/m<br>'Y'=Total Wattage  | FPC-CT-'X'W/'Y'<br>'X'=W/m<br>'Y'=Total Wattage  | FPC-SR-'X'W/'Y'<br>'X'=W/m<br>'Y'=Total Wattage  |                 |  |          |  |              |  |   |    |                      |       |   |         |     |   |    |       |   |    |

Can also be custom-built as per specific requirements

# Roof & Gutter De-icing - GDIT-SR / CT

for de-icing outdoors



GDIT-SR is a self-Limiting heating tape used for protecting against freezing on roofs or in roof gutters. A black TPE outer jacket ensures the required UV resistance

| Features                             | GDIT-SR                         | GDIT-CT                         |
|--------------------------------------|---------------------------------|---------------------------------|
| Heating Power W/m (230 VAC)          | GDIT - SR 20                    | GDIT - CT 20                    |
| Power Output at 10 deg C on Pipe     | 20W/m @ 10 deg C                | 20W/m                           |
| Voltage Supply                       | 230VAC, 50Hz, 120VAC on request | 230VAC, 50Hz, 120VAC on request |
| Min. Installation Temperature        | -30 deg C                       | -15 deg C                       |
| Application Temperature up to        | -30 deg C                       | -30 deg C                       |
| Operating Temperature - Switched on  | Max 65 deg C                    | Max 65 deg C                    |
| Operating Temperature - Switched off | Max 85 deg C                    | Max 85 deg C                    |
| Minimum Bending Radius               | 25mm                            | 36mm                            |
| Circuit Breaker                      | Max. 16A                        | Max. 16A                        |
| Range                                | 5-70 mts                        | 5-70 mts                        |

Can also be custom-built as per specific requirements.

#### Circuit breaker selection & maximum length

| Voltage AC 230 V     | GDIT - SR20 |    |        |
|----------------------|-------------|----|--------|
| Breaker size         | A           | 10 | 16     |
| Start-up Temperature | 10°C        | M  | 79 110 |
|                      | -15°C       | M  | 49 71  |
|                      | -20°C       | M  | 42 58  |

# Thermo Radiant Panel Heaters – TRPH

## For Radiant Panel Heating



The panel heaters are used for heating radiant panels used for ceiling and wall heating.

### Construction

Panel heaters comprise of High temperature insulated heating element sandwiched between two layers of Aluminium foil to ensure uniform heating. The bottom side of the Aluminium foil is provided with pressure sensitive adhesive coating for fixing on the surface to be heated. The Cold lead of desired length for power connection is provided.

### Specifications

|                         |                   |
|-------------------------|-------------------|
| <b>Type</b>             | Twin conductor    |
| <b>Power Output</b>     | Around 1000w/sq.m |
| <b>Voltage</b>          | 230V              |
| <b>Insulation</b>       | Fluoropolymer     |
| <b>Width of the mat</b> | 550 mm            |
| <b>Cold lead</b>        | 0.6 m             |

### Features

|                        |  |
|------------------------|--|
| <b>Flexible</b>        | They are light weight, flexible and have excellent surface contact on large areas.   |
| <b>Uniform Heating</b> | Close and even space of heating elements ensure uniform heating.   |
| <b>Cost-effective</b>  | Extremely cost effective due to optional heat utilization and minimal losses.  |
| <b>Safety</b>          | Temperature limiter can be provided optionally to ensure over heating protection and safety.   |
| <b>User Friendly</b>   | Easy to Install.   |
| <b>Custom Built</b>    | Aluminium Foil Heater is custom designed to suit individual requirements. We can design for various dimensions, heat loads and voltages. |

### PRODUCT RANGE (230 V)

| S.No. | Width (m) | Length (m) | Total Power watts | Resistance ( $\Omega$ ) @ 20°C (- 5 %, + 10 %) | Current (Amp.) |
|-------|-----------|------------|-------------------|--|----------------|
| 1     | 550       | 500        | 350               | 151.14   | 1.52           |
| 2     | 550       | 850        | 500               | 105.80   | 2.17           |
| 3     | 550       | 1000       | 750               | 70.50  | 3.26           |
| 4     | 550       | 1400       | 1000              | 52.90  | 4.35           |

Note : We can provide customized lengths.



Extrusion lines of Rosendahl,  
 Metal Sheathing lines of Wardwell  
 Stranding lines of Bartel  
 Automatic Robotic Mat Making Machine  
 SAP Enterprise Resource Management



## Thermopads Pvt. Ltd.

28, Nagarjuna Hills, Punjagutta, Hyderabad - 500 082. India.  
 Phone : + 91-40 44429292.  
 E-mail : info@thermopads.com, www.thermopads.com

## Thermopads UK Limited

16, Ascort Court, Grove End Road,  
 London NW8 9RY, UK. Phone : +44 (0) 20 7286 9569  
 E-mail : medhapattem@thermopads.com  
 European warehouse facility at UK.



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