

# Thermopads




Domestic & Commercial Heating Solutions





Thermo Group, a name synonymous with Innovation, Excellence and Quality is the manifestation of a seed sown over 30 years back.

With strong footings in Hyderabad, India, Thermo Group today has its reach in every corner of the Globe. The group companies are:  
Thermo Cables - manufacturers of a wide range of cables,  
Thermopads - specialists in Industrial, Commercial and Domestic Heating, and Thermosystems - an EPC company in the field of Fuel Oil Handling System, Heat Tracing, LP Piping and Misc. Tanks.



Committed to Innovation, Quality and Customer Service, sensitive to Market needs, and backed by over 30 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
- Laminate Floor Heating Mat
- Floor Heating Cable
- Snow Melting Cable
- Snow Melting Mat
- Asphalt Snow Melting Cable / Mat
- Freeze Protection Cable
- Mirror Heater
- Thermostat
- Accessories

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



**Blazing a trail  
across 25 countries**

**Spreading warmth  
over 30 years**

**Enjoying warm relations  
with more than  
50 clients globally...**

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

\*Refer Industrial Product Brochure for detailed information

# Under Tile Heating Cables - UTHC

for under tile heating



Thermo Under Tile Heating Cable are useful for heating irregular shaped rooms as an alternative 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.

Heating Element & OD : Single Conductor(2.3mm)  
and Twin Conductor (3.2 mm)

Standard Wattage : 10 W/m @ 230V AC.

Cold Lead : 3.0 mtr

### Features

<b>Approvals</b>	Certified by Intertek Semko against relevant IEC/EN 60335 Standard.
<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.

### 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

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

Can also be custom-built as per specific requirements

Note: For Underfloor Heating Kits replace UTHCS by UTHCSKT and UTHCT by UTHCTKT in the above mentioned catalogue nos.

# Floor Heating Mats - FHM

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. FHM are easy to install products without requiring technicians to plan their layouts.





### Construction

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.

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>Approvals</b>	Certified by Intertek SEMKO as per IEC / EN 60335 Standard.
<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	FHMX-100W/100	100	FHMX-150W/150	150	FHMX-200W/200	200
3.0	0.5	FHMX-100W/150	150	FHMX-150W/225	225	FHMX-200W/300	300
4.0	0.5	FHMX-100W/200	200	FHMX-150W/300	300	FHMX-200W/400	400
5.0	0.5	FHMX-100W/250	250	FHMX-150W/375	375	FHMX-200W/500	500
6.0	0.5	FHMX-100W/300	300	FHMX-150W/450	450	FHMX-200W/600	600
7.0	0.5	FHMX-100W/350	350	FHMX-150W/525	525	FHMX-200W/700	700
8.0	0.5	FHMX-100W/400	400	FHMX-150W/600	600	FHMX-200W/800	800
9.0	0.5	FHMX-100W/450	450	FHMX-150W/675	675	FHMX-200W/900	900
10.0	0.5	FHMX-100W/500	500	FHMX-150W/750	750	FHMX-200W/1000	1000
12.0	0.5	FHMX-100W/600	600	FHMX-150W/900	900	FHMX-200W/1200	1200
14.0	0.5	FHMX-100W/700	700	FHMX-150W/1050	1050	FHMX-200W/1400	1400
16.0	0.5	FHMX-100W/800	800	FHMX-150W/1200	1200	FHMX-200W/1600	1600
18.0	0.5	FHMX-100W/900	900	FHMX-150W/1350	1350	FHMX-200W/1800	1800
20.0	0.5	FHMX-100W/1000	1000	FHMX-150W/1500	1500	FHMX-200W/2000	2000
22.0	0.5	FHMX-100W/1100	1100	FHMX-150W/1650	1650	FHMX-200W/2200	2200
24.0	0.5	FHMX-100W/1200	1200	FHMX-150W/1800	1800	FHMX-200W/2400	2400

### 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.

Note : X = T for twin conductor heating cables  
X = S for single conductor heating cables

# Laminate Floor Heating Mats - ThermoLAM

for laminate floor and under-carpet heating



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>Approvals</b>	Certified by Intertek Semko against relevant IEC / EN 60335 Standard.
<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

### 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


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 comprises of resistance elements provided with primary fluoropolymer insulation, metal shielding and outer sheathing of Low Smoke Zero Halogen.

Heating Element & OD : Single Conductor (4.5 mm) and Twin Conductor (5.3 mm)

Standard Wattage : Available in 17 W/m

Cold Lead : 2.5 Mtr

### Features

<b>Approvals</b>	Certified by SGS Fimko as per IEC / EN 60800 Standard.
<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

### 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.

### Cable Fixing Strips



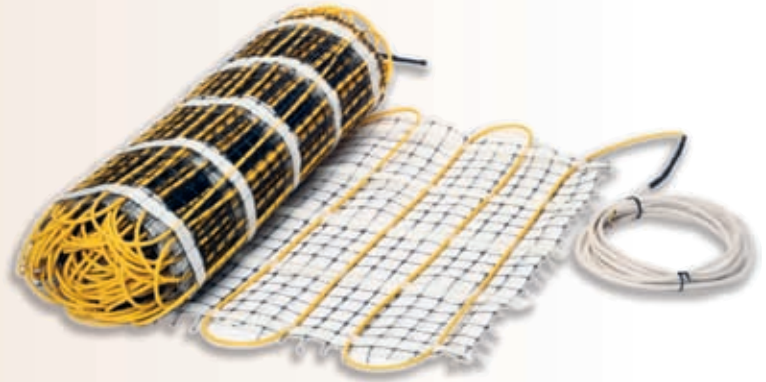
This strip can be used as a metal installation attachment for heating cable up to 6.5mm diameter. The fixing strip has flexible c-c spacing in steps of 25 mm, hence allows variable watt/m<sup>2</sup> outputs. Standard packing available in rolls of 25 mtrs.

# 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, 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.

Cold Lead : 5.0 mtr

### Features

#### Approvals

Meets requirements of IEC 60800 & approved by FIMKO.

#### Tough & Reliable

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.

#### Cost-Effective

Provides heat where required, resulting in optimal heat utilization and minimal losses.

#### Safety

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

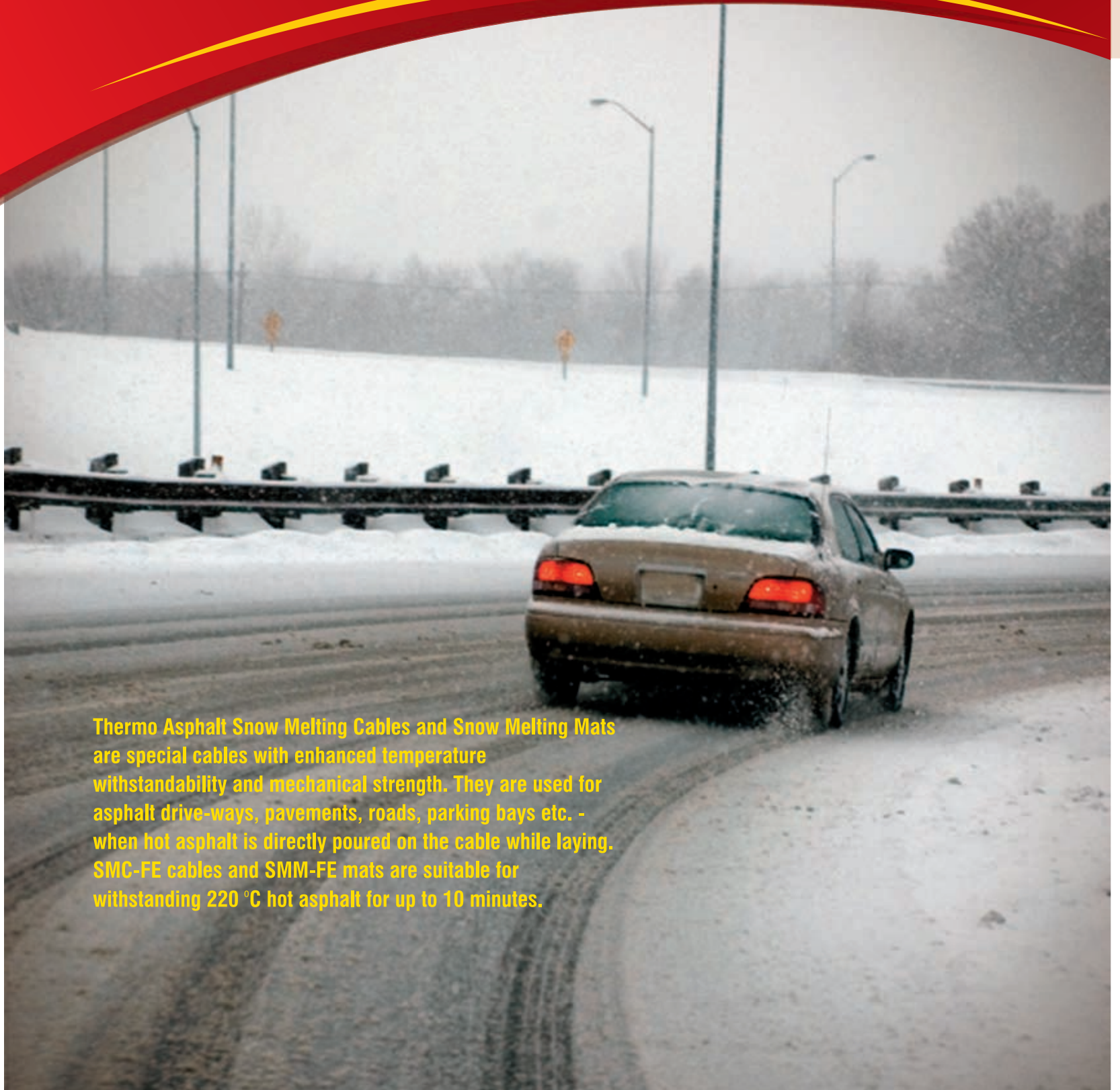
Catalog Reference No.	Width (M)	Length (M)	Area (Sq.m)	Watts (W)
<b>Snow Melting Mat, Single / Twin Conductor, Rating: 350W/SQ.M at 230VAC</b>				
SMMX-350W/850	0.4	6	2.4	850
SMMX- 350W/1100	0.4	8	3.2	1100
SMMX- 350W/1400	0.4	10	4.0	1400
SMMX- 350W/1700	0.4	12	4.8	1700
SMMX- 350W/2000	0.4	14	5.6	2000
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

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

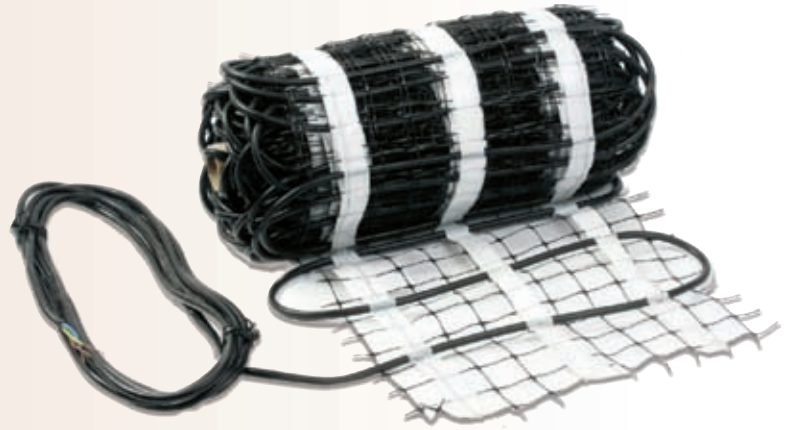
Can also be custom-built as per specific requirements.

# 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. - when hot asphalt is directly poured on the cable while laying. SMC-FE cables and SMM-FE mats are suitable for withstanding 220 °C hot asphalt for up to 10 minutes.



### 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

Cold Lead : 5.0 mtr

### Features

<b>Approvals</b>	Meets requirements of IEC 60800 Class-C and approved by FIMKO.
<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: X=T for twin conductor heating cables / mats. X=S for single conductor heating cables / mats

# 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>Approvals</b>	Meets the requirements of IEC 62395 Standard.
<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.
<b>Reliability</b>	A uniquely designed hot to cold junction makes the termination 100% foolproof.

### Specifications

	<b>FPC-C</b>	<b>FPC-CT</b> (controlled with in-built temperature limiter)	<b>FPC-SR</b> (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, metal sheathing and Polyolefin outer jacket.	Constant Watt type Twin conductor series resistance heating cable comprising of resistance elements with primary insulation of Fluoropolymer, 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 outer jacket.
<b>Cold Leads</b>	2.0m length with Plug		
<b>Standard Range @ 230V AC</b>	10 W/m 2m to 135m lengths 16 W/m 1.6m to 106.7m lengths 25 W/m 1.3m TO 85.4m lengths		10W/M at 10°C 2m to 25m lengths
<b>Catalog Nos.</b>	FPC-C-'X'W/'Y' 'X'=W/m 'Y'=Total Wattage	FPC-CT-'X'W/'Y' 'X'=W/m 'Y'=Total Wattage	FPC-SR-'X'W/'Y' 'X'=W/m 'Y'=Total Wattage

Can also be custom-built as per specific requirements

# Mirror Heaters - MH

for fog free mirrors



Made from strong Reinforced Aluminum foil, Thermo Mirror Heaters are specially designed to keep mirrors free from fog even in the steamiest conditions. Flexible and easy-to-install, all they need is a flip of the switch to ensure fog-free vision. The safe and reliable Thermo Mirror Heaters meet international safety standards.



### PRODUCT RANGE

Catalog Reference No.	Width (M)	Length (M)	Area (Sq.m)	Watts (W)
<b>Mirror Heater 150 W/Sqm - 230V</b>				
MH-F-150W/25	0.5	0.3	0.15	25
MH-F-150W/50	0.5	0.7	0.35	50
MH-F-150W/75	0.5	1.0	0.50	75
MH-F-150W/75	0.6	0.8	0.48	75

Can also be custom-built as per specific requirements



Extrusion lines of Rosendahl, MTM  
Metal Sheathing lines of Wardwell  
Stranding lines of Bartel



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IBM Technology Award Winner...

ISO 9001