



Marathon TEMPSENS

ENGINEERED SOLUTIONS
FOR HEATING & SENSING

ISO 9001-2015



FLOOR HEATING CABLES



MARATHON HEATER (I) PVT. LTD.

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FLOOR HEATING CABLES

Nothing matches to radiant floor heating. It is more comfortable than any other type of heating system. Radiant floor heating is the most energy-efficient way of delivering heat. There is no other floor heating option that compares in terms of comfort. Radiant floor heating is a low-temperature technology that may be regulated individually in each area. Because it warms the people and items directly rather than heating the air.

In most circumstances, radiant floor heating cables may save 20 to 40% of energy compared to other forms of heating system. With digital electronic thermostat, these are completely customizable for maximum comfort and efficiency. The thermostat is regulated to provide optimal economic functioning of the floor heating cable, not the W/m of the heating cable, which determines energy usage.

The following are some of the benefits of heating cables:

Free of Ageing : The conductor element is protected from thermal ageing by various high grade insulation. Once installed, the floor heating cable has a life span equal to that of the building.

Maintenance Free : Electrical floor heating cables require minimal maintenance since they do not have any moving parts, unlike hydronic cables, which include valves and other components that require periodic maintenance, tubes in a hydronic system can also get clogged as a result of pollution and must be replaced on a regular basis.

Very thin : The diameter of the cable is less than that of cables with different insulations, such as PVC. It simplifies the laying process. The rise in floor level during installation is minimized as a result of this aspect.

Moisture Resistant : Shielded & insulated floor heating cables are specifically developed for use in areas where moisture is a problem too, such as bathrooms.

Advantages of Marathon Heating Cables

- Easy installation and can be installed in any area in the house and any type of flooring.
- Can be an excellent option for low-energy homes.
- Works quietly from beneath the tiles/plywood.
- Underfloor heating distributes heat where it is needed, resulting in maximum heat efficiency and only very little heat loss.
- Easy to control required temperature in all weather by digital temperature controller with thermostat.
- For optimal protection, Marathon floor heating cables are insulated using XPLE/ETFE/FEP/PTFE on both the conductors and PVC(HR-FR) on the outer jacket.

- Marathon floor heating cables have been developed particularly to deliver primary heating beneath a variety of flooring. To facilitate 'tape-down' installation, the cables are also available into the preassembled fiber glass mats.
- Marathon floor heating cables are completely grounded and comes with a 3.5 meter long cold lead wire for power connection.

Floor Heating Cables

Features

Shielding Coverage	100% Coverage
Bending Radius	5 times of cable thickness
Jacketing	Heat Resistant and Flame Retardant Jacketing
Flexibility of Cable	Excellent Flexibility for easy installation
Long Cold Lead	3.5 meter cold tail (Can be customized as per requirement)
Comfort	Higher degrees of comfort can be achieved by using heating cables with close and consistent spacing, as well as thermostat to determine temperature needs.
Range	Standard heat loads are available in 100 watt to 3300 watt. As part of the offered product range, several sizes for various types / sizes of flooring are also available.
Custom-Built	In addition to this broad range, cables can be customized to meet specific length requirements, as well as heat loads and voltage needs.

Application

- Remove any trash and sharp protrusions from the subfloor.
- Prior to installation, consider deflection and structural factors.
- Before installing the cable, check its applicability according to the instructions.
- Prior to putting floor coverings, consider using a scratch coat or a thin leveler.
- Install Heat Resistant Insulation Sheet if want to reduce heat loss (Optional).
- Install Marathon Floor Heating Cable on Plastic Molded Spacer or Aluminium Mounting Tape or similar spacer according to the manufacturer's installation directions.
- Set up a digital temperature controller with thermostat for sensing the floor.
- Install the floor covering according to the manufacturer's directions.

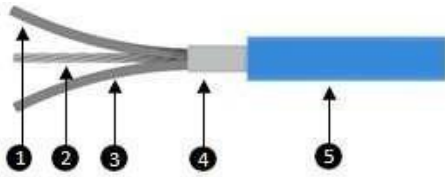


Maintenance & Warranty

Marathon floor heating cable requires no maintenance for the remainder of its warrantied life when installed according to the installation instructions and adequate testing has been completed throughout.

Marathon warranty protects the Marathon heating cable for a period of 30 years against manufacturer's faults.

FLOOR HEATING CABLE (FHC-SX-06)



- 1 XLPE Insulated Heating Element
- 2 Multi-strand Earth Wire
- 3 XLPE Insulated Return Wire
- 4 Al Foil for 100% Shielding
- 5 PVC(HR-FR) Insulated Outer Jacket

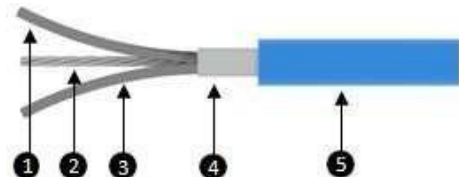
Construction

Element Conductor size	0.076mm ² /0.30mm ² CuNi/SS- Single Core
Insulation	XLPE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	Multi-strand
Jacket	PVC (HR-FR)
Power Output per Meter	06 Watt/ Meter
Standard Voltage	230 Volt AC

Range

Model	Watts	Cable Length (Meter)
FHC-SX-06-180	180	30
FHC-SX-06-300	300	50
FHC-SX-06-360	360	60
FHC-SX-06-480	480	80
FHC-SX-06-600	600	100
FHC-SX-06-720	720	120
FHC-SX-06-900	900	150
FHC-SX-06-1140	1140	190

FLOOR HEATING CABLE (FHC-SX-10)



- 1 XLPE Insulated Heating Element
- 2 Solid Earth Wire
- 3 XLPE Insulated Return Wire
- 4 Al Foil for 100% Shielding
- 5 PVC(HR-FR) Insulated Outer Jacket

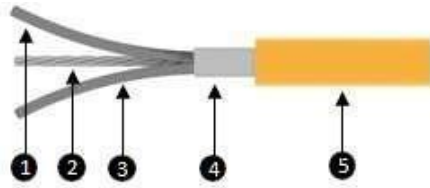
Construction

Element Conductor size	0.028mm ² /0.40mm ² CuNi/SS- Single Core
Insulation	XLPE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 1.0mm (Solid)
Jacket	PVC (HR-FR)
Power Output per Meter	10 Watt/ Meter
Standard Voltage	230 Volt AC

Range

Model	Watts	Cable Length (Meter)
FHC-SX-10-100	100	10.0
FHC-SX-10-200	200	20.0
FHC-SX-10-300	300	30.0
FHC-SX-10-400	400	40.0
FHC-SX-10-500	500	50.0
FHC-SX-10-600	600	60.0
FHC-SX-10-800	800	80.0
FHC-SX-10-1000	1000	100.0
FHC-SX-10-1200	1200	120.0
FHC-SX-10-1500	1500	150.0
FHC-SX-10-1900	1900	190.0

FLOOR HEATING CABLE (FHC-SP-12.5)



- 1 PTFE Insulated Heating Element
- 2 Solid Earth Wire
- 3 PTFE Insulated Return Wire
- 4 Al Foil for 100% Shielding
- 5 PVC(HR-FR) Insulated Outer Jacket

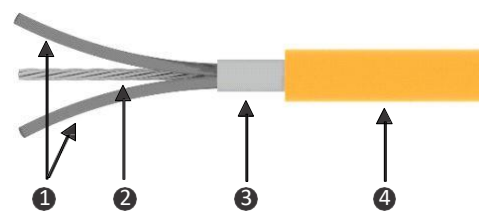
Construction

Element Conductor size	0.013mm ² /0.36mm ² CuNi/SS/Kanthal/Cu- Single Core
Insulation	PTFE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 1.0mm- 1.20mm (Solid)
Jacket	PVC (HR-FR)
Power Output per Meter	12.5 Watt/ Meter
Standard Voltage	230 Volt AC

Range

Model	Watts	Cable Length (Meter)
FHC-SP-12.5-85	85	6.76
FHC-SP-12.5-150	150	12.50
FHC-SP-12.5-225	225	17.66
FHC-SP-12.5-300	300	23.77
FHC-SP-12.5-375	375	29.87
FHC-SP-12.5-450	450	35.97
FHC-SP-12.5-525	525	41.56
FHC-SP-12.5-600	600	47.67
FHC-SP-12.5-675	675	53.77
FHC-SP-12.5-750	750	59.87
FHC-SP-12.5-900	900	71.57
FHC-SP-12.5-1050	1050	83.77
FHC-SP-12.5-1200	1200	95.47
FHC-SP-12.5-1350	1350	107.67
FHC-SP-12.5-1700	1700	136
FHC-SP-12.5-2050	2050	164
FHC-SP-12.5-2400	2400	192
FHC-SP-12.5-2700	2700	216
FHC-SP-12.5-3050	3050	244

FLOOR HEATING CABLE (FHC-DF-15.7)



- 1 FEP Insulated Dual Heating Element
- 2 Multi-strand Earth Wire
- 3 Al Foil for 100% Shielding
- 4 PVC(HR-FR) Insulated Outer Jacket

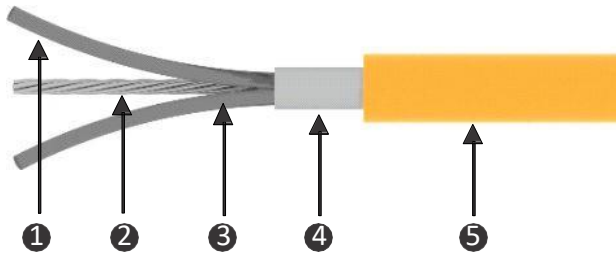
Construction

Element Conductor size	0.050mm ² /0.13mm ² CuNi- Two Core
Insulation	FEP
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 0.50mm ² (Multi-strand)
Jacket	PVC (HR-FR)
Power Output per Meter	15.7 Watt/ Meter
Standard Voltage	230 Volt AC

Range

Model	Watts	Cable Length (Meter)
FHC-DF-15.7-150	150	9.55
FHC-DF-15.7-187.5	187.5	11.94
FHC-DF-15.7-225	225	14.33
FHC-DF-15.7-262.5	262.5	16.72
FHC-DF-15.7-300	300	19.11
FHC-DF-15.7-337.5	337.4	21.50
FHC-DF-15.7-375	375	23.89
FHC-DF-15.7-450	450	28.66
FHC-DF-15.7-525	525	33.44
FHC-DF-15.7-600	600	38.22
FHC-DF-15.7-675	675	42.99
FHC-DF-15.7-750	750	47.77
FHC-DF-15.7-900	900	57.32
FHC-DF-15.7-1050	1050	66.88
FHC-DF-15.7-1200	1200	76.43
FHC-DF-15.7-1350	1350	85.99
FHC-DF-15.7-1500	1500	95.54
FHC-DF-15.7-1650	1650	105.10
FHC-DF-15.7-1800	1800	114.65
FHC-DF-15.7-1950	1950	124.20
FHC-DF-15.7-2250	2250	143.31

FLOOR HEATING CABLE (FHC-SP-15.7)



- 1 PTFE Insulated Heating Element
- 2 Multi-strand Earth Wire
- 3 PTFE Insulated Return Wire
- 4 Al Foil for 100% Shielding
- 5 PVC(HR-FR) Insulated Outer Jacket

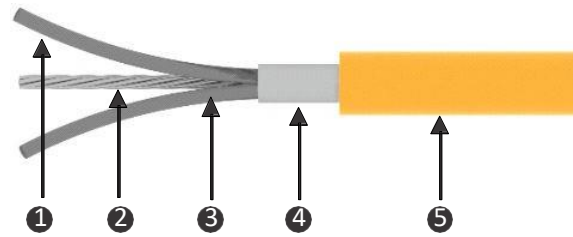
Construction

Element Conductor size	0.013mm ² /0.36mm ² CuNi/SS/Kanthal/Cu- Single Core
Insulation	PTFE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 1.0mm- 1.25mm(Multi-strand)
Jacket	PVC (HR-FR)
Power Output per Meter	15.7 Watt/ Meter
Standard Voltage	230 Volt AC

Range

Model	Watts	Cable Length (Meter)
FHC-SP-15.7-113	113	7.50
FHC-SP-15.7-150	150	10.00
FHC-SP-15.7-188	188	12.50
FHC-SP-15.7-225	225	15.00
FHC-SP-15.7-263	263	17.50
FHC-SP-15.7-300	300	20.00
FHC-SP-15.7-338	338	22.50
FHC-SP-15.7-375	375	25.00
FHC-SP-15.7-450	450	30.00
FHC-SP-15.7-525	525	35.00
FHC-SP-15.7-600	600	40.00
FHC-SP-15.7-675	675	45.00
FHC-SP-15.7-750	750	50.00
FHC-SP-15.7-900	900	60.00
FHC-SP-15.7-1050	1050	70.00
FHC-SP-15.7-1200	1200	80.00
FHC-SP-15.7-1350	1350	90.00
FHC-SP-15.7-1500	1500	100.00

FLOOR HEATING CABLE (FHC-SX-17)



- 1 XLPE Insulated Heating Element
- 2 Solid Earth Wire
- 3 XLPE Insulated Return Wire
- 4 Al Foil for 100% Shielding
- 5 PVC(HR-FR) Insulated Outer Jacket

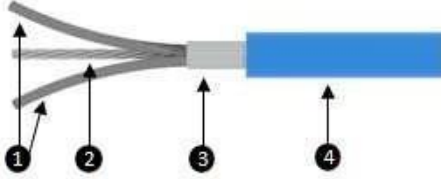
Construction

Element Conductor size	0.11mm ² /0.34mm ² CuNi/SS- Single Core
Insulation	XLPE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 0.75mm ² (Solid)
Jacket	PVC (HR-FR)
Power Output per Meter	17 Watt/ Meter
Standard Voltage	230 Volt AC

Range

Model	Watts	Cable Length (Meter)
FHC-SX-17-150	150	8.8
FHC-SX-17-300	300	17.6
FHC-SX-17-400	400	23.5
FHC-SX-17-500	500	29.4
FHC-SX-17-600	600	35.3
FHC-SX-17-700	700	41.2
FHC-SX-17-850	850	50
FHC-SX-17-1000	1000	58.8
FHC-SX-17-1250	1250	73.5
FHC-SX-17-1500	1500	88.2
FHC-SX-17-1700	1700	100
FHC-SX-17-2100	2100	123.5
FHC-SX-17-2600	2600	152.9
FHC-SX-17-2900	2900	170.6
FHC-SX-17-3300	3300	194.1

FLOOR HEATING CABLE (FHC-DE-120V-03)



- 1 ETFE Insulated Dual Heating Element
- 2 Multi-strand Earth Wire
- 3 Al Foil for 100% Shielding
- 4 PVC(HR-FR) Insulated Outer Jacket

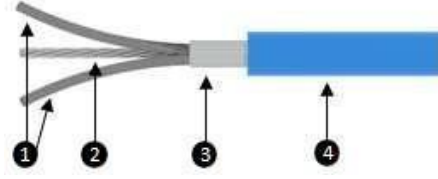
Construction

Element Conductor size	0.07mm ² /0.35mm ² CuNi - Two Core
Insulation	ETFE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 1.00mm ² (Multi-strand)
Jacket	PVC (HR-FR)
Power Output per Feet	03 Watt/ Feet
Standard Voltage	120 Volt AC

Range

Model	Watts	Cable Length (Feet)
FHC-DE-120V-03-120	120	40
FHC-DE-120V-03-180	180	60
FHC-DE-120V-03-240	240	80
FHC-DE-120V-03-300	300	100
FHC-DE-120V-03-360	360	120
FHC-DE-120V-03-420	420	140
FHC-DE-120V-03-480	480	160
FHC-DE-120V-03-540	540	180
FHC-DE-120V-03-600	600	200
FHC-DE-120V-03-720	720	240
FHC-DE-120V-03-840	840	280
FHC-DE-120V-03-960	960	320
FHC-DE-120V-03-1080	1080	360
FHC-DE-120V-03-1200	1200	400

FLOOR HEATING CABLE (FHC-DE-240V-03)



- 1 ETFE Insulated Dual Heating Element
- 2 Multi-strand Earth Wire
- 3 Al Foil for 100% Shielding
- 4 PVC(HR-FR) Insulated Outer Jacket

Construction

Element Conductor size	0.125mm ² /0.54mm ² CuNi/Cu/SS/kanthal- Two Core Solid
Insulation	ETFE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 1.0mm ² (Multi-strand)
Jacket	PVC (HR-FR)
Power Output per Feet	03 Watt/ Feet
Standard Voltage	240 Volt AC

Range

Model	Watts	Cable Length (Feet)
FHC-DE-240V-03-120	120	40
FHC-DE-240V-03-180	180	60
FHC-DE-240V-03-240	240	80
FHC-DE-240V-03-300	300	100
FHC-DE-240V-03-360	360	120
FHC-DE-240V-03-420	420	140
FHC-DE-240V-03-480	480	160
FHC-DE-240V-03-540	540	180
FHC-DE-240V-03-600	600	200
FHC-DE-240V-03-660	660	220
FHC-DE-240V-03-720	720	240
FHC-DE-240V-03-840	840	280
FHC-DE-240V-03-960	960	320
FHC-DE-240V-03-1080	1080	360
FHC-DE-240V-03-1200	1200	400
FHC-DE-240V-03-1320	1320	440
FHC-DE-240V-03-1440	1440	480
FHC-DE-240V-03-1680	1680	560
FHC-DE-240V-03-1920	1920	640
FHC-DE-240V-03-2160	2160	720
FHC-DE-240V-03-2400	2400	800