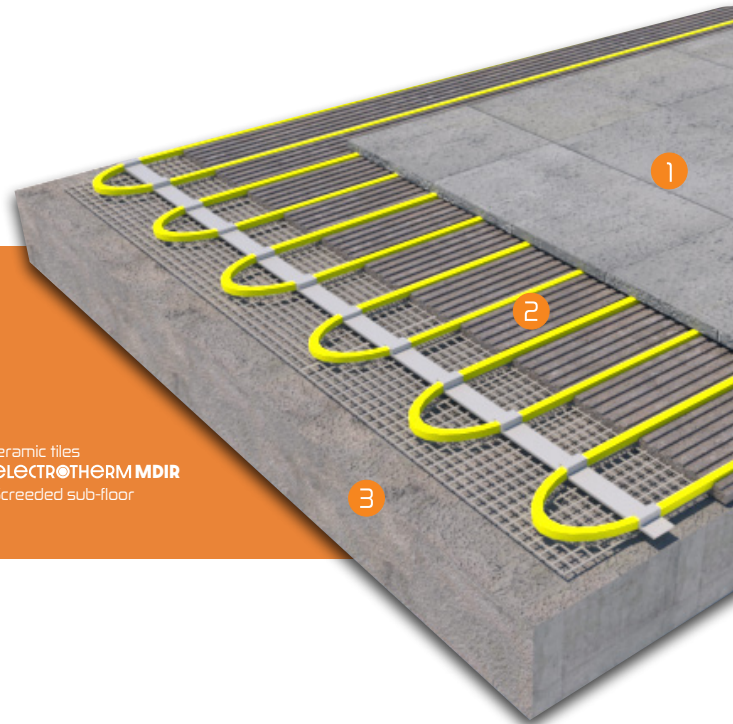


MDIR

Super thin, double core underfloor heating mat

1. Ceramic tiles
2. **ELECTROTHERM MDIR**
3. Screeded sub-floor



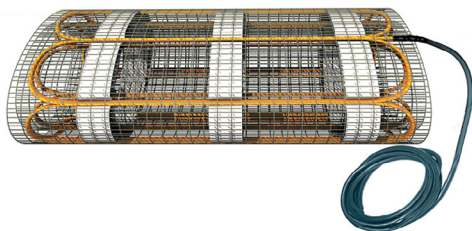
PRODUCT INFORMATION

Application

ELECTROTHERM MDIR is a super thin electric underfloor heating mat engineered to provide high performance and efficient floor heating. The system is suitable for installation under ceramic tiles, making them ideal for bathrooms and kitchens. Any type of floor covering can be installed above the mats, including marble, carpet and tiles. **ELECTROTHERM MDIR** can be installed on both new and existing floors. The thin mats are ideal for floors where space is at a premium.

Product Design

ELECTROTHERM MDIR underfloor heating mats feature double core shielded heating cables, fixed on a self adhesive fiber mesh. The double-core system, allows you to provide electric power supply from one end of the mat rather than two. A feature that is not possible with single core alternatives. Quality and excellent functionality are ensured thanks to the shielded design of the cables and the constant distance between their fixation to the mesh. The mats also feature a cold lead, reliable coupling and end termination.



Key Benefits



Essential solution for premises with low ceilings



Approved long-life performance



Cost and energy saving solution



Simple and fast installation

Technical Information

Rated Voltage	230 vac
Power	150 W/m ²
Maximum operation temperature	80°C
Minimum operation temperature	-10°C
Minimum storage temperature	-20°C
Minimum installation temperature	-10°C
Installation width	0.5m
Cold lead length for 150 W/m ²	4m
Cable diameter	3.00mm - 3.50mm
Cold lead length	4m
Cold lead cross section	Up to 4m ² : 3 x 0.5mm ² from 6m ² up to 9m ² : 3 x 0.75mm ² from 10m ² up to 14m ² : 3 x 1.00mm ² for 15m ² : 3 x 1.50mm ²
Colour	Yellow

Product Reference

Type of heating mat	MDIR
Power in watts	240 W
Area	1.5 m ²

ELECTROTHERM
MDIR-240-1.5

Installation

A thermostat with a suitable temperature sensor is required when installing **ELECTROTHERM MDIR** underfloor heating mats. The temperature sensor should be embedded in the concrete floor and inside a corrugated tube in the middle of one cable loop. Install the thermostat in your preferred location.

Please consult all technical data and installation guides to ensure correct installation.

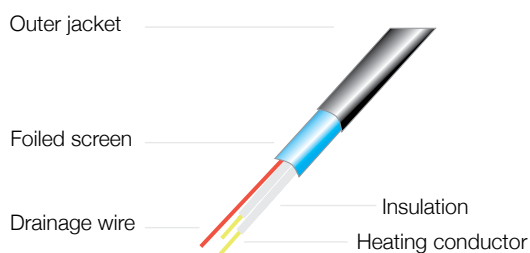
PRODUCT RANGE OPTIONS

160 w/m² MDIR*

TYPE	POWER W	AREA M ²	RESISTANCE AT 20°C (OHMS Ω)
MDIR-160-1.0/160	160	1.0	313,95 - 365,52
MDIR-240-1.5/160	240	1.5	208,34 - 241,23
MDIR-340-2.15/160	340	2.15	136,45 - 158,00
MDIR-400-2.5/160	400	2.5	116,25 - 134,60
MDIR-480-3.0/160	480	3.0	96,66 - 111,92
MDIR-640-4.0/160	640	4.0	74,45 - 86,20
DFM-800-5.0/80	800	5.0	58,01 - 67,17
DFM-960-6.0/80	960	6.0	50,00 - 57,89
DFM-1120-7.0/80	1120	7.0	38,92 - 45,07
DFM-1280-8.0/80	1280	8.0	33,98 - 39,34
DFM-1440-9.0/80	1440	9.0	130,10 - 34,85
DFM-1600-10.0/80	1600	10.0	27,18 - 31,47
DFM-1920-12.0/80	1920	12.00	22,56 - 26,12
DFM-2400-15.0/80	2400	15.0	17,52 - 20,29

*200 w/m² MDIR heating mats available upon request

Cable Design



Associated Products

ELECTROTHERM Thermostats

ELECTROTHERM Temperature sensors

Please see the associated technical data sheet or contact us directly for more information

200 w upon request

Approved Details

The compliance with all necessary requirements is approved by appropriate certificates:

