

Features

- Small cable diameter
- Universal solution for premises with complex room layouts
- 100% electrical safety
- Maintenance-free and approved long-life performance
- Maximum cost and energy saving
- Extremely low EMF
- Simple installation

Description

Application

The EcoTWIN heating section can be applied both as a direct heating in well thermal insulated rooms or as a supplemental system providing comfort heating. The ultrathin heating sections can be easily installed into a thin tile adhesive layer (8–10mm) or in a levelling compound. The system can be used under any covering of your choice, e.g. tile, marble or carpet. The EcoTWIN heating cable is the universal solution for heating of irregular shaped premises of any type and can be easily installed both on a new surface or on the existing floor in case of repair works.

Construction

EcoTWIN is a twin conductor series resistance heating cable comprising of resistance elements with insulation of high temperature polymer and a PVC outer jacket. The EcoTWIN heating section is equipped with a power-supply cable (3 m length) and a reliable coupling. A metallic sheath of aluminium tape with 100% coverage ensures additional mechanical strength and extremely low EMF. Together with a copper drain wire it also provides earth screen for safe use. The 'Twin' technology with only one connection wire makes installation easier and reduces installation cost.

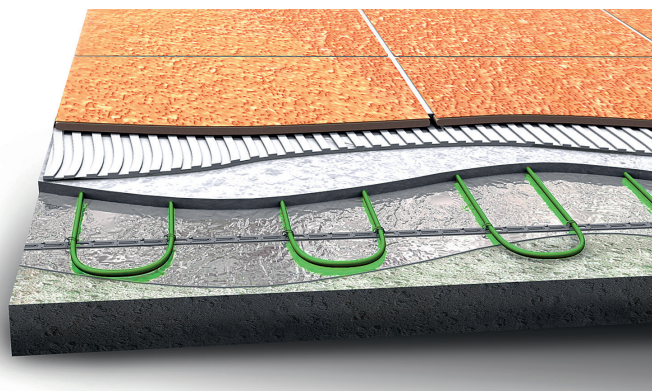
Application

Application	Installation
Direct heating	● Mortar / screed
Comfort heating	● Tile adhesive
	● Levelling compound
	● Floating

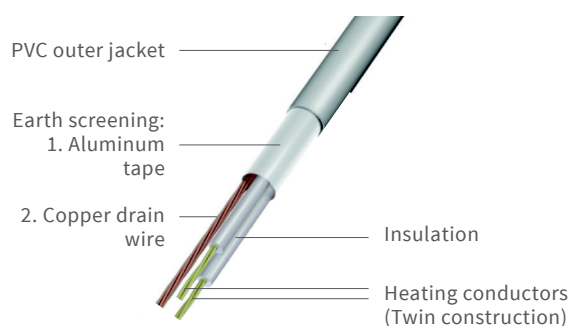
Ordering information

EcoTWIN-470-39

Heating section type _____
Power, W _____
Section length, m _____



Cable design



Technical data

Rated voltage	230 V AC
Nom. power output	~ 12 W/m
Maximum operation temperature	+80 °C
Minimum operation temperature	-15 °C
Minimum storage temperature	-30 °C
Minimum installation temperature	+5 °C
Minimum bending radius at installation	6D (6-times heating cable diameter)
Cold lead length	3 m
Heating cable diameter	~ 3.2 mm
IP protection class	IPX7
Heating cable colour	green
Certifications	CE RoHS



Product references

Ultrathin double-core heating section EcoTWIN						
Mat type	Heating area recommended, m ²	Rated power, W	Nominal power output, W/m	Section length, m	Total resistance (Ω), Nom. @ +20°C (-5%, +10%)	Current, A
EcoTWIN-130-11	0.8 – 1.0	130	11.8	11.0	406.9	0.57
EcoTWIN-220-18	1.4 – 1.7	220	12.2	18.0	240.4	0.96
EcoTWIN-300-25	2.0 – 2.3	300	12.0	25.0	176.3	1.30
EcoTWIN-470-39	3.0 – 3.6	470	12.1	39.0	112.5	2.04
EcoTWIN-815-63	5.4 – 6.2	815	12.9	63.0	64.9	3.54
EcoTWIN-1040-86	7.0 – 8.0	1040	12.1	86.0	50.9	4.52
EcoTWIN-1800-155	12.0 – 13.8	1800	11.6	155.0	29.4	7.83

Installation

For uniform heat distribution, the EcoTWIN heating cable is installed in loops with constant cable spacing by using the assembly tape. Energy saving operation of the EcoTWIN heating section is ensured by installing an electronic temperature controller with an appropriate floor temperature sensor. The floor sensor must be positioned inside a conduit. It should be placed at heating level directly underneath the heating section by chiselling out a channel in the subfloor.

The sensor should be centrally positioned between two heating conductors, which is in the middle of a cable loop. The thermostat should be mounted on the wall in the same room with the heating installed. Applicable norms and rules as well as installation manuals must be observed.