

**Features**

- Specifically for installation in concrete/screed
- Applicable even for complex room layouts
- 100% electrical safety
- Maintenance-free and approved long-life performance
- Maximum cost and energy saving
- Extremely low EMF
- Easy to install

**Description**

**Application**

The EcoTWIN-S heating cable can particularly be used as a direct heating system in properly insulated rooms, but also as a supplementary heating system for more thermal comfort. The heating cable is specially designed for installation in mortar and screed and can be applied with a wide range of flooring types, e.g. under tiles, natural stone or PVC. The EcoTWIN-S heating cable is well applicable even for rooms with complex layout.

**Construction**

The EcoTWIN-S is a series resistance heating cable with two heating conductors each with insulation of high temperature polymer and a polyolefin outer jacket. The EcoTWIN-S heating section for installation in mortar/screed is equipped with a power-supply cable (3 m length) and a reliable coupling. A metallic sheath of aluminium tape with 100% coverage inside the cable 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.

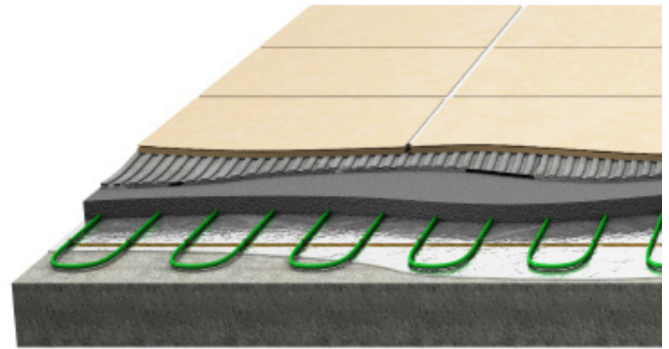
**Application**

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

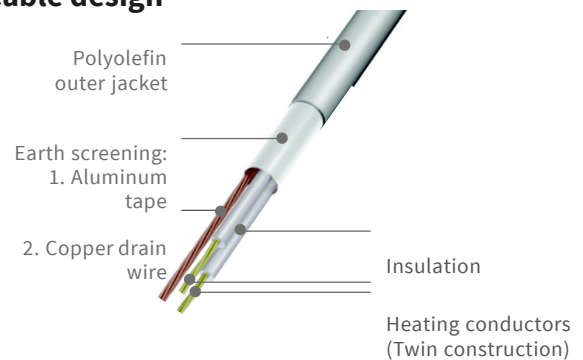
**Ordering information**

**EcoTWIN-S-33-560**

Heating section type \_\_\_\_\_  
 Section length, m \_\_\_\_\_  
 Power, W \_\_\_\_\_



**Cable design**



**Technical data**

Rated voltage	230 V AC
Nom. power output	~ 17 W/m
Maximum operation temperature	+105 °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	~ 5.3 mm
IP protection class	IPX7
Mechanical class	M2 (acc. IEC 60800)
Heating cable colour	green

Certifications   **RoHS**



## Product references

Double-core heating section for screed EcoTWIN-S						
Type	Heating area recommended, m <sup>2</sup>	Rated power, W	Nominal power output, W/m	Section length, m	Total resistance (Ω), Nom. @ +20°C (-5%, +10%)	Current, A
EcoTWIN-S-7-105	0.5 – 1.1	105	15.0	7.0	503.8	0.46
EcoTWIN-S-9.5-150	0.8 – 1.5	150	15.8	9.5	352.7	0.65
EcoTWIN-S-12.5-210	1.1 – 2.1	210	16.8	12.5	251.9	0.91
EcoTWIN-S-15.5-260	1.3 – 2.6	260	16.8	15.5	203.5	1.13
EcoTWIN-S-21-350	1.8 – 3.5	350	16.7	21.0	151.1	1.52
EcoTWIN-S-27-460	2.3 – 4.6	460	17.0	27.0	115.0	2.00
EcoTWIN-S-33-560	2.8 – 5.6	560	17.0	33.0	94.5	2.43
EcoTWIN-S-42-730	3.7 – 7.3	730	17.4	42.0	72.5	3.17
EcoTWIN-S-55-980	4.9 – 9.8	980	17.8	55.0	54.0	4.26
EcoTWIN-S-71-1265	6.3 – 12.7	1265	17.8	71.0	41.8	5.50
EcoTWIN-S-84-1500	7.5 – 15.0	1500	17.9	84.0	35.3	6.52
EcoTWIN-S-102-1855	9.3 – 18.6	1855	18.2	102.0	28.5	8.07
EcoTWIN-S-131-2530	12.7 – 25.3	2530	19.3	131.0	20.9	11.00
EcoTWIN-S-159-2680	13.4 – 26.8	2680	16.9	159.0	19.7	11.65

## Installation

The EcoTWIN-S heating cable is specially designed for installation in mortar (concrete) and in screed. For uniform heat distribution, the heating cable is installed in loops with constant cable spacing by using the assembly tape. Energy saving operation of the double-core 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 groove 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.