

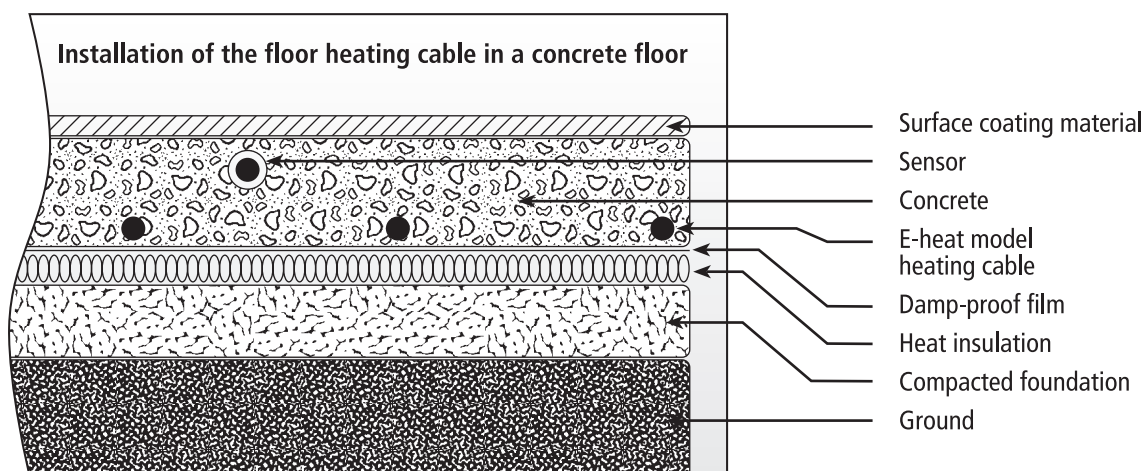
General instructions for installation

Thank you for buying the E-heat model heating cable.

- Before installation, please read these instructions carefully.
 - The floor heating cables must be installed by an authorised person only.
 - Installation must be carried out in compliance with the country's safety regulations.
 - Avoid cutting or twisting the heating cable, as well as excessively bending or straining it.
 - Place the ends and connector joints of the cable in the same ambient conditions as the cable itself.
 - Carefully observe the installation and operation instructions.
 - Test the heating cable by measuring its active and insulation resistances before and after the concrete casting.
 - Do not install the floor heating cable under the permanently placed furniture like cupboards, etc.
 - Do not install the heating cable in class 0 space.
 - In rooms with explosive hazard, do not connect the cable to the same group with other electric equipment.
 - It is recommended to provide for the cable with a suitable fault current protection.
 - Make sure that bends of the heating cable do not touch each other or overlap.
 - Take care of making installation drawings for your heating cable. These drawings, made preferably by a licensed designer who follows the manufacturer's instructions, would show the power and the length of the cable, the distance between its bends, and the area of installation. Observe these drawings during the installation and add any alterations you make.
 - The warranty shall become effective only if the active and insulation resistances have been measured and the corresponding table filled.
- Do not guide the heating cable through a thermal insulating material or install it on such a material. To prevent the cable from overheating, lay it evenly in a uniform environment. Do not lay the cable over expansion joints and avoid places with excessive heat (like a fireplace or a sauna stove).
 - Install the protective tube of the thermostat sensor so that the sensor can be replaced if necessary. Put the sensor between the bends of the open cable, slightly above the plane of the cable, at a distance of approximately 50 cm from the wall. The sensor must not touch the heating cable.
 - Carefully clean the concrete surface before laying the cable on it. Remove any sharp objects.

Attach the fastening lath to the base made of the first batch of concrete. It is best to do this before the concrete has finally hardened. The fastening lath ensures the equal span between the bends of the heating cable, and prevents its contact with pipes. If the floor will be cast with a single batch of concrete, attach the heating cable to fittings. The final casting must be 30 to 50 mm thick for direct heating and 50 to 80 mm thick for cumulative heating. For surface coating, use a heat-conducting hard material (like clay tile) for direct heating and an insulating material (like cork or parquet) for cumulative heating. Do not turn the floor heating on before the casting has completely hardened (about 30 days for concrete and 7 days for compounds). The temperature of the heating cable is adjusted with the thermostat.

When installing the heating cable on a gypsum lath or a renovated floor, follow the instructions for concrete floor.



Calculation of the span between the bends of the cable

$$\frac{\text{power per meter of cable length [W]}}{\text{floor area [m}^2\text{]}} = \text{specific power OR } \frac{\text{floor area [m}^2\text{]}}{\text{cable length [m]}} = \text{cable span (in metres)}$$

Measurement table

Place of installation	e-heat type	Resistance (Rnom)	Resistance before casting	Resistance after casting		
		Ω	Ω	MΩ	Ω	MΩ

Specifications of the measuring instrument _____

Measuring date, name and signature _____

Inspection date, name and signature _____

E-HEAT- heating cables loop resistance:

type	sstl	10W/m	loop resistance
e-heat 165	8178031	16,5m, (165W) 2x10 ohm	330 Ω
e-heat 235	8178032	23,5m, (235W) 10ohm	235 Ω
e-heat 305	8178033	30,5m, (305W) 6 ohm	183 Ω
e-heat 430	8178034	42,5m, (430W) 3ohm	128 Ω
e-heat 605	8178036	60,5m, (605W), 1,5 ohm	91 Ω
e-heat 1085	8178040	109 m (1085), 0,45 ohm	49 Ω

type	sstl	20W/m	loop resistance
e-heat 230	8178002	12m (235W) 2x10 ohm	240 Ω
e-heat 335	8178003	17m (335W) 10 ohm	170 Ω
e-heat 430	8178004	21,5m (430W) 6 ohm	129 Ω
e-heat 605	8178006	30,5m (605W) 3 ohm	92 Ω
e-heat 885	8178008	42,5m (855W) 1,5 ohm	64 Ω
e-heat 1150	8178011	57,5m (1150W) 0,82 ohm	47 Ω
e-heat 1535	8178015	77m (1535W) 0,45 ohm	35 Ω
e-heat 1800	8178018	91m (1800 W) 0,32 ohm	29 Ω
e-heat 2300	8178023	121m (2300W) 2x0,1 ohm	24 Ω