PISTESARJAT



PST-C
Series resistance heating cable

Product information and installation guide

PST-C series resistance heating cable

Technical specifications and use applications

CONSTRUCTION	DIAMETER	INSULATION	OUTER SHEATH
Two wire constant resistor	approx. 6 mm	XLPE & fluoropolymer sheaths	PVC, UV protected

OPERATING VOLTAGE	MAX. POWER	AMBIENT TEMP.	BENDING RADIUS
230 V	10 W/m	max. 80 °C	> 35 mm

MECH. ENDURANCE	TENSILE STRENGTH	PROTECTION
C (M2)	2000 N	IP 67

- Partially storing and direct underfloor heating
- Sewers, water pipes, rainwater systems
- Outdoor areas

Note that with the right control system, anti-freeze systems are more energy and cost effective. At the same time, using a control system extends the service life of the cables. Refer to our customer service for product guidance to find a suitable control system.

PISTESARJAT

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Product selection

PRODUCT NUMBER	TYPE	RESISTANCE (tot. ohm Ω)
81 670 60	PST-C / 11,4 m 120 W	441
81 670 61	PST-C / 18,9 m 200 W	264
81 670 62	PST-C / 23,6 m 250 W	212
81 670 63	PST-C / 31,6 m 320 W	165
81 670 64	PST-C / 36,9 m 400 W	132
81 670 65	PST-C / 45,7 m 450 W	117
81 670 66	PST-C / 56,1 m 550 W	96
81 670 67	PST-C / 63,9 m 600 W	88
81 670 68	PST-C / 75,8 m 750 W	70
81 670 69	PST-C / 87 m 950 W	56
81 670 70	PST-C / 114,5 m 1100 W	48
81 670 71	PST-C / 131,3 m 1300 W	40
81 670 72	PST-C / 158,3 m 1700 W	31
81 670 73	PST-C / 194,5 m 2000 W	26

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General installation instructions

- Min. installation temperature –5 °C.
- Installation must be carried out in accordance with current regulations.
- The heating cable must be connected to the electrical network by a qualified electrician.
- Intended for fixed installations.
- The heating cable shall not be installed so that it passes expansion joints.
- Installation ready cables must not be shortened.
- Note that flammable building components must not be exposed to temperatures above 80 °C.
- This heating cable complies with current EU directives. CE approval.

PLEASE NOTE!

If PST heating cables are used as space heaters, they must be controlled by a thermostat that complies with the EcoDesign directive. The cable or heating mats are classified as space heaters when installed indoors, in residential spaces.

The cable alone does not comply with the EcoDesign Directive: an appropriate control unit is required to comply with the directive. Our EcoDesign compliant products can be identified by the stamp below.

(EU) 2015/1188 – The EcoDesign Directive has been in force since 2015.



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UNDERFLOOR HEATING

1. Make sure that the concrete slab is insulated in accordance with the current building regulations.

2. Check that the resistance is within the tolerance range (Ω), as well as the insulation resistance (MΩ) to the ground.

3. Calculate the installation distance using the following formula:

$$\text{Installation distance} = \frac{\text{Total area for heating}}{\text{Heating cable length}}$$

Bending radius >35 mm
Installation distance >70 mm

4. Unwind the heating cable and secure it to the reinforcement mesh with ties at least 30 cm apart. NOTE! The shrink-wrap connection between the heating cable and the cold end must be in the concrete casting or screed.

5. The thermostat sensor is placed in a free spot in the room, the sensor is placed in a TAM or similar pipe. The pipe is placed between two heating cables, so that there is a distance of 30–50 cm to the cables. Seal the pipe end so that no screed can flow inside the pipe.

6. Check that the resistance is within the tolerance range (Ω), as well as the insulation resistance (MΩ) to the ground.

7. The height of the concrete structure must be at least 30 mm. The concrete must not contain sharp stones, etc. that could damage the heating cable. Do not walk on the cable, and make walkways out of boards to distribute the load.

8. Check that the resistance is within the tolerance range (Ω), as well as the insulation resistance (MΩ) to the ground. Take photographs of the loops to facilitate possible reconstruction and repair.

9. After pouring, wait 4 weeks before connecting the heating.

10. The qualified electrician who carried out the electrical connection must complete and sign the warranty certificate and marking label. The marking label should be attached to the distribution board or next to it. The warranty certificate is handed over to the customer. For the warranty to be valid, the warranty certificate and marking label must have been carefully completed. NOTE! The installation must be protected by a residual current circuit breaker. We recommend using a 30 mA residual current circuit breaker.

OUTDOOR GROUND DEICING

1. Make sure that the resistance is within the tolerance range (Ω) and check the insulation resistance (MΩ) to the ground.

2. Calculate the installation distance using the following formula:

$$\text{Installation distance} = \frac{\text{Total area for heating}}{\text{Heating cable length}}$$

Bending radius >35 mm
Installation distance >70 mm

3. Unwind the heating cable and secure it to the reinforcement mesh on a sand base (approx. 10 cm thick) at least every 30 cm with ties. Cover with a 200–300 mm layer of soil. The heating cable must be equipped with an excavation cover made of brick, cable protection, or similar.

4. Check that the resistance is within the tolerance range (Ω) and check the insulation resistance (MΩ) to the ground.

5. The thermostat sensor is placed between two heating cables in a TAM or similar pipe, with a 30–50 cm distance to the cables. Seal the pipe end.

6. The qualified electrician who carried out the electrical connection must complete and sign the warranty certificate and the marking label. The marking label is attached to the distribution board or next to it. The warranty certificate is handed over to the customer for safekeeping in case of a possible complaint. The warranty is valid only if the warranty certificate and the marking sticker have been carefully filled in. NOTE! A residual current device must always be used. The installation must be marked with weatherproof signs.

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ASPHALT AND CONCRETE AREA DEICING

1. Make sure that the resistance is within the tolerance range (Ω) and check the insulation resistance (MΩ) to the ground.

2. Calculate the installation distance using the following formula:

$$\text{Installation distance} = \frac{\text{Total area for heating}}{\text{Heating cable length}}$$

Bending radius >35 mm
Installation distance >70 mm

3. Unwind the heating cable and secure it to the reinforcement mesh on a sand base. The cable should be secured at least every 30 cm with ties and placed 50 mm from the surface of the concrete slab, asphalt, etc. Due to the risk of overheating, the asphalt must be spread with a shovel, not by tipping. The heating cable can also be cast into concrete stairs.

4. Check that the resistance is within the tolerance range (Ω), as well as the insulation resistance (MΩ) in the ground.

5. The frost protection cable can be controlled with e.g. a DTR-E 3102 dual thermostat or a time relay.

6. The qualified electrician who performed the electrical connection must complete and sign the warranty certificate and marking label. The marking label is attached to the distribution board or next to it. The warranty certificate is handed over to the customer for safekeeping in case of a possible complaint. The warranty is valid only if the warranty certificate and marking label have been carefully completed. NOTE! A residual current device must always be used . The installation must be marked with weatherproof signs.

GUTTER AND DOWNPIPE DEICING

1. Make sure that the resistance is within the tolerance range (Ω) and check the insulation resistance (MΩ) to the ground.

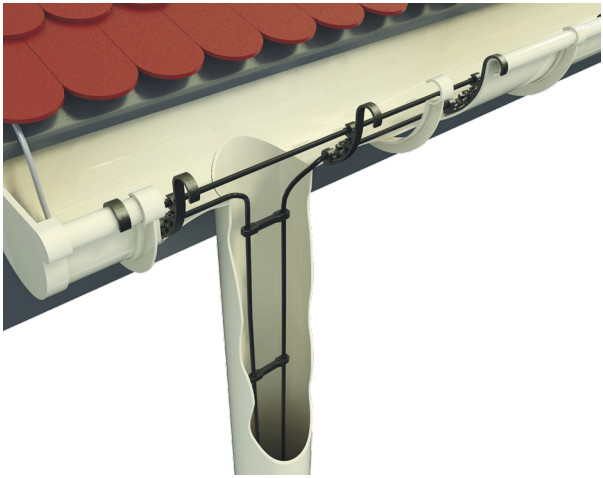
2. Find the suitable cable lengths for the installation site: the cable may be installed as loops, as long as it does not come in contact with itself or other heating cables .

3. Install the cable in eaves and downspout using plastic clamps, fastening strips or magnetic brackets, and a strain relief hook or strain relief strip for the downspouts.

4. Check that the resistance is within the tolerance range (Ω) and check the insulation resistance (MΩ) to ground.

5. The deicing cable can be controlled with a DTR-E 3102 dual thermostat

6. The qualified electrician who performed the electrical connection must complete and sign the warranty certificate and marking label. The marking label is attached to the distribution board or next to it. The warranty certificate is handed over to the customer for safekeeping in case of any complaints. The warranty is valid only if the warranty certificate and marking label have been carefully completed. NOTE! A residual current device must always be used and the installation must be marked with weatherproof signs.



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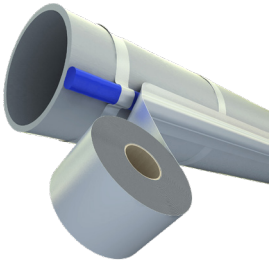
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TRACE HEATING FOR PIPES

1. Make sure that the resistance is within the tolerance range (Ω) and check the insulation resistance (MΩ) to the ground.

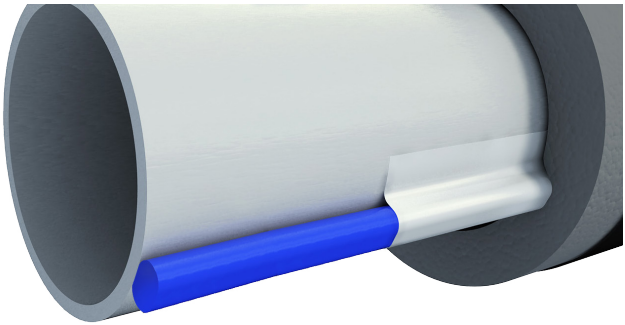
2. Place the heating cable along the pipe and secure it with aluminum tape on the underside of the pipe. It is recommended to first secure the cable with a few transverse strips of tape and finally pull the tape parallel to the cable the entire way. This ensures the best possible heat conduction from the cable to the pipe.



3. Add the necessary insulation around the pipe and the heating cable.

4. Check that the resistance is within the tolerance range (Ω), as well as the insulation resistance (MΩ) to ground.

5. NOTE! For plastic pipes, a max. 12 W/m power (e.g. PST-C) and thermostat control are recommended.



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Installation drawing

Provide a drawing or photo of the installation here

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Warranty certificate

NOTE: All fields need to be filled out carefully for the warranty to be valid

PRODUCT SUBJECT TO WARRANTY

INSTALLATION LOCATION AND SITE

CABLE PURCHASE LOCATION

CABLE LENGTH AND MANUFACTURING DATE (MARKED ON THE CABLE)

CONFIRM THAT INSULATION HAS BEEN CHECKED, RECORD THE RESISTANCE VALUE

CABLE INSTALLATION DEPTH AND INSTALLATION SPACING

ELECTRICIAN'S NAME

THE COMPANY THAT PERFORMED THE INSTALLATION, BUSINESS ID OR REGISTRATION NUMBER

CONTACT INFORMATION FOR THE ELECTRICIAN OR INSTALLATION COMPANY

ELECTRICIAN'S SIGNATURE AND DATE

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Pistesarjat Warranty

Conditions and specifications

Pistesarjat Oy grants a 10-year full warranty for PST-C cables for floor installation. For other applications, the warranty is 2 years. The warranty applies to **material and manufacturing defects** and comes into effect from the date of purchase with the following conditions:

- The electrical connection has been carried out by a qualified electrician in accordance with the applicable regulations and the installation instructions provided by Pistesarjat Oy.
- If the technical documentation includes a Warranty Certificate page, it must be carefully filled out during installation.
- The place of purchase has been notified of any possible defect.
- Pistesarjat Oy has been given the opportunity to troubleshoot to confirm the cause of the defect.
- No troubleshooting or repair work shall be carried out without Pistesarjat Oy's consent.
- Proof of purchase must be provided.

These installation instructions have been checked as carefully as possible. However, we are not responsible for any direct or indirect damage caused by possible errors or incorrect application of the information. All rights reserved. Copyright (C) 2026 Pistesarjat Oy.

CE



Disposal guidance

Electronic components or devices containing them must NOT be disposed of with household waste. They are to be disposed of like other electrical and electronic waste in accordance with local legislation.

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