

Thank you for purchasing a BN Thermic product. Manufactured to a high standard this product will, if installed and used according to these instructions, give you years of trouble free performance.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS, NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS, AND CAUTIONS. USE THIS PRODUCT CORRECTLY, AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY.

1. SAFETY INSTRUCTIONS

ELECTRICAL SAFETY

WARNING! It is the responsibility of the Installer, owner and operator to read, understand and comply with the following:

- It is recommended to disconnect the heating cable from the supply during the summer. The heating cable and supply lead should then be checked for mechanical damage before being reconnected in winter.
- The heating cable must not touch, cross or overlap, as this could result in the heating cable overheating.
- Never cut or shorten the heating cable.
- Never connect the rolled-up heating cable to the power supply.
- Do not install the PW cable on pipes heated to more than 66°C e.g. steam piping.
- Allow a minimum of 13mm from all inflammable materials, including inflammable insulations.
- Never use thermal insulation thicker than 20mm. Any insulation used should be fire-proof.
- Always take measures to prevent physical damage to the cable. The cable may be damaged by sharp objects or edges.
- The cold lead connection must not be put under stress.
- The PW cable is not designed for immersion in liquids.
- The supply lead may not be changed. If damaged the cable should be replaced.
- The cable should be disconnected from the supply before any work is carried out.
- If there is any doubt concerning the suitability of a specific pipe, please contact your pipe supplier.

Caution: Do not use in areas subject to high mechanical loads or impact. Not UV protected.



2. SPECIFICATION

The PW automatic heating cable protects pipes from freezing. It includes a bimetallic thermostat which switches the heating cable on when the pipe temperature drops close to 0°C. Correctly installed cable works automatically and protects pipes from freezing without any additional control and with minimum power consumption.

Part Number	PW-01	PW-02	PW-03	PW-04	PW-06	PW-10	PW-14	PW-21	PW-30	PW-42
Length (m)	1	2	3	4	6	10	14	21	30	42
Power (W)	12	25	36	48	72	136	152	281	337	490
Switching ON Temp.	+ 3°C									
Supply	230V +/- 10% 50HZ									
Protection Rating	IP 66									
Max Operating Temp.	+ 70°C									
Sensor	Bimetallic thermostat									
Supply Lead (m)	1.5m supplied with 3pin UK fused plug									

3. SELECTING THE CORRECT CABLE LENGTH

Selecting the correct cable size							
Thickness of insulation (mm)	Min. surrounding temperature (°C)	Pipe diameter (mm)					
		15	20	25	32	40	50
		Wattage of heating cable per linear meter (W)					
10	-15	7	9	11	13	15	19
	-25	11	14	16	19	23	28
20	-15	5	6	7	8	9	11
	-25	7	9	10	12	14	16

3. INSTALLATION INSTRUCTIONS

PREPARATION OF PIPE

Before installing the PW heating cable make sure that the pipe area and its surroundings are free of sharp edges and flammables to reduce the risk of damage to the cable and surrounding areas. It is recommended to degrease the pipe, e.g. with white spirit, for better adhesiveness of adhesive tape. If the PW automatic heating cable is used to protect plastic pipe, it is recommended to cover the plastic piping with AL-50 aluminium tape before installing the PW cable. The aluminium tape ensures better heat transmission and even distribution along the entire pipe perimeter. (See Pic A)

CABLE INSTALLATION

Spread the heating cable along the pipe, or if it is longer wind it around the pipe in an evenly spaced helix. If installed on plastic pipe, have the cable sufficiently loose to prevent its tensile stress in thermal dilatation. (See Pic B)

FIXING CABLE TO THE PIPE

Fix the heating cable to the pipe approx. every 20cm using a good quality electrical insulating tape. BN Thermic's PF-T tape is recommended. Do not use any other method. After fastening the cable in this way, it is recommended to seal up the whole length of cable with AL-50 Tape so that it adheres perfectly to the pipe surface. Sealing with AL-50 tape is highly recommended when protecting a pipe that may be empty.

THERMAL INSULATION OF PIPE AND THE CABLE

Insulate the pipe and heating cable with thermal insulation of minimum and maximum thickness 10mm and 20mm respectively. The heating cable on the pipe may be insulated with mineral wool or any other fireproof type foam insulation. Insulation of the same thickness must be used along the whole length of pipe to preserve the same thermal conditions in all the sections of the heating cable including the thermostat section. Should the thermostat section be insulated more than the rest of the pipe, the pipe may freeze. Should the thermostat area have less insulation than the rest of the pipe, the pipe may overheat. Ask your supplier of heating insulation for information on its absorption, in respect of the environment and where the heating insulation should be used. Protect moisture-absorbent materials with an impermeable layer, otherwise their thermal insulation abilities may be reduced considerably. (See Pic D)
Always cover the thermostat with insulation.

CONNECTION TO WIRING

Make sure that a correctly installed socket is within reach of the supply lead of the heating cable. If an extension cable is used, it must be of an approved type. It is recommended to create a loop on the supply lead to prevent water condensing on the pipe and running down the supply lead to the socket.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.



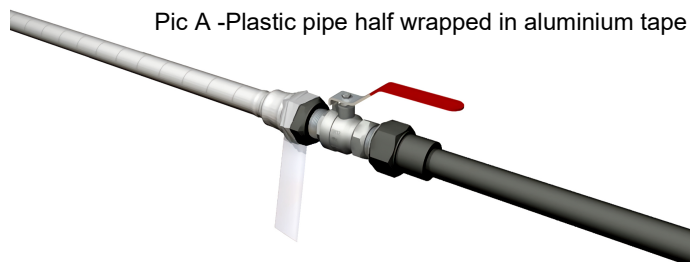
WEEE REGULATIONS:

This appliance bears the symbol of the crossed waste bin. This indicates that, at the end of its useful life, it must not be disposed of as domestic waste, but must be taken to a collection centre for waste electrical and electronic equipment. It is the user's responsibility to dispose of this appliance through the appropriate channels. Failure to do so may incur penalties established by laws governing waste disposal.

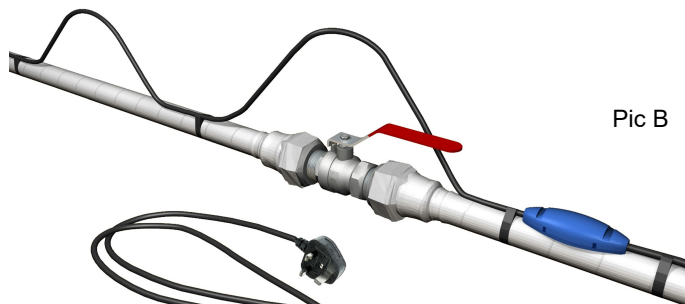
IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Your BN Thermic product is guaranteed for one year from date of purchase. We will repair or replace at our discretion any part found to be defective. We cannot assume any consequential liability. This guarantee in no way prejudices your rights under common law and is offered as an addition to consumer liability rights.

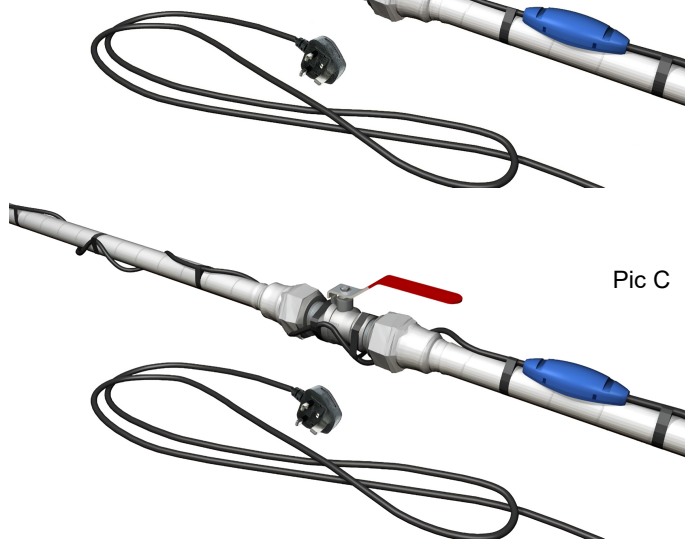
BN Thermic Ltd,
34 Stephenson Way,
Crawley, RH10 1TN
Tel: 01293 547361
sales@bnthermic.co.uk
www.bnthermic.co.uk



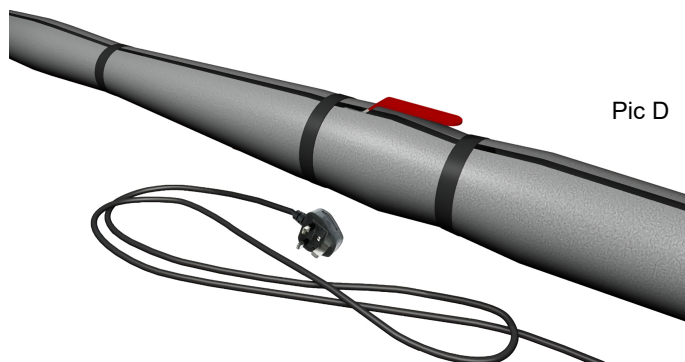
Pic A -Plastic pipe half wrapped in aluminium tape



Pic B



Pic C



Pic D