

HIGH VOLTAGE CABLE HEATING BLANKET

Installation & Operation



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Product warranty

We warrant that this product will be free from defects in materials and workmanship for a period of one year (up to 1600 hours of use) from the date of shipment. If this product proves defective during its warranty period the manufacturer will either repair the defective product without charge for parts and labor, or provide a replacement in exchange for the defective product.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care.

Introduction

Our High Voltage Cable Heating Blankets are made for easier bending or straightening of High Voltage Cables.

The heating blankets are made for operating temperatures around 90°C, but can be set to heat to and maintain any temperature between 0°C and 90°C.

The heating blankets can be produced for any diameter of cable (See the label on specific products for intended diameter).

Important safety instructions

- Only use for intended cable size. See the label for diameter.
- Make sure to select a heating blanket that isn't longer than the exposed cable end. The whole length of the heating blanket MUST be in contact with the cable to avoid overheating.
- Always inspect the blanket and electrical connections before use.
- Install the blanket on the cable before connecting the power.
- Make sure to fasten the heating blanket firmly around the cable.
- The red dot on the blanket indicates the location of the thermostat. If this part is not in contact with the material being heated, the blanket will not function properly and may overheat.
- Never handle the blanket while in operation.
- Do not step or walk on the blanket.
- Always disconnect the blanket and let it cool before handling.
- Never immerse the heating blanket into liquids.
- Do not make cuts in the blanket and keep sharp objects away .
- The heating blanket should never be left unattended while in operation.
- Disconnect the heating blanket when not in use.
- Do not try to repair damaged or faulty heating blankets. All repairs must be done by the manufacturer.



Failure to read, understand, or follow the above safety instructions may result in injury or fire hazard.

Installation

Unpacking and inspection

Unpack the heating blanket and place it on a clean and dry surface. Perform an inspection to look for transport damage. Do not use the heater if it is damaged!

Power

The power connection must be adequate rated to electrically support the voltage and power of the heater. Follow all local electrical codes for proper connections.

Installation on the high voltage cable

1. Check the diameter of the cable and verify that the blanket is the right size (Size is noted on the label).
2. Make sure to select a heating blanket that isn't longer than the exposed cable end. The whole length of the heating blanket **MUST** be in contact with the cable to avoid overheating.
3. Place the heating blanket around the cable using the velcro for fastening it.
4. Check that the fit is secure.
5. Connect the heating blanket to the controller.
6. Connect the controller power cable to power supply and turn on the power.
7. Adjust the controller for the desired cable temperature (The temperature can also be changed during use).



Operating the controller

The controller shows the desired temperature and the current surface temperature of the high voltage cable, as measured by the PT100 sensor.

To adjust the desired temperature, press the up or down arrow. Press the OK button to save the new setting.

When the dot in the lower right corner of the display is lit, the heating element is currently powered and heating the cable.

The controller has a timer function for automatic shutdown and a slow warmup function. For further information about the controller please refer to the DigiTherm Digital Controller manual.



Technical specifications

Application areas

Bending or straitening of high voltage cables.

Working temperatures

0-90 °C (+/- 5°C)

Environmental classification

IP54

Operation conditions (Controller)

Min: -10 °C

Max: 40 °C

15% - 80% relative humidity.

Power

Voltage: 120V or 230V

Power: 750W/1500W (~1400 W/m²)

Dimensions

Cable diameter: ø60-160mm (Heating blanket is 625mm long)

Heating blanket width: 1000mm or 2000mm

Thickness of the heating blanket is 8mm.

Safety

- Rugged high temperature materials.
- Bimetal safety thermostat at 100°C.
- Thermal Fuse at 167°C.
- Fuse in controller (16A at 120V or 10A at 230V).
- Electrical Protection Class II.

Insulation

Fiberglass insulation

Material

Silicone impregnated cloth

Sensor

PT100

Fastening method

Velcro straps

Part numbers 120 Volt:

Controller:		19-2728HVC
Heating blanket 1000mm 120V 750W:		20-2850
Heating blanket 2000mm 120V 1500W:		18-2574

Part numbers 230 Volt:

Controller:		19-2674HVC
Heating blanket 1000mm 230V 750W:		20-2851
Heating blanket 2000mm 230V 1500W:		18-2573

Heating times

The table below can be used as a guideline to heating times for different cable sizes (2 meter heating blanket used for test).

Cable cross section	Set temperature	Heating time
400mm ²	80°C	~4 hours
1200mm ²	80°C	~5 hours
2500mm ²	80°C	~6 hours

Other product ranges

Drum heaters
for food stuff



Drum heaters



IBC heaters



Insulation jackets



Silicone drum heaters

