



Spiral Silicone Heating Cable

Product Application:

The spiral heating cable is an efficient and flexible heating device widely used in various industrial and everyday applications. It serves as a superior alternative to heating cables, allowing for consistent pipeline contact and improved temperature uniformity, especially suitable for applications that require localized or specific shape heating.



Main Product Applications of the Spiral Heating Cable:

1. Electronics Industry

◆ Semiconductor Equipment: Used for heating pipes and valves in semiconductor manufacturing equipment to ensure stable temperatures of gases or liquids during production, particularly suitable for maintaining temperatures in small-diameter pipelines like 1/4, 3/8, and 1/2 inches.

2. Chemical Industry

◆ Pipeline Insulation Heating: Used for heating and insulating liquid or gas transport pipelines in chemical production to prevent media from solidifying or temperature reduction.
◆ Tank Heating: Suitable for heating various chemical storage tanks, ensuring that the substances inside remain stable in flowability or chemical activity.

3. Mechanical Equipment

◆ Plastic Processing Equipment: The spiral heating cable is used in injection molding machines, extruders, etc., to heat plastic raw materials to achieve the required processing temperature.
◆ Mold Heating: Widely used for surface preheating and temperature control of die-casting molds and rubber molds.

4. Energy and Environment

◆ Oil Field Equipment: Preventing media in pipelines from waxing or clogging due to low temperatures during the transport of crude oil or natural gas in oil fields.
◆ Solar Energy Equipment: Used for freeze protection heating of solar water heater pipes and tanks in cold regions.

5. Food and Pharmaceutical Industry

◆ Food Processing: Used for maintaining or heating liquid raw materials and sauces in food production equipment.
◆ Pharmaceutical Equipment: Heating the delivery pipelines and containers of medicinal liquids to ensure that drug production meets process requirements.

6. Laboratories and Research Institutions

◆ Experimental Devices: Providing constant temperature heating for specific devices or instruments during experiments, such as test tubes and reaction vessels.
◆ Temperature Control Systems: Used for precise heating of sensitive equipment or materials during R&D testing.

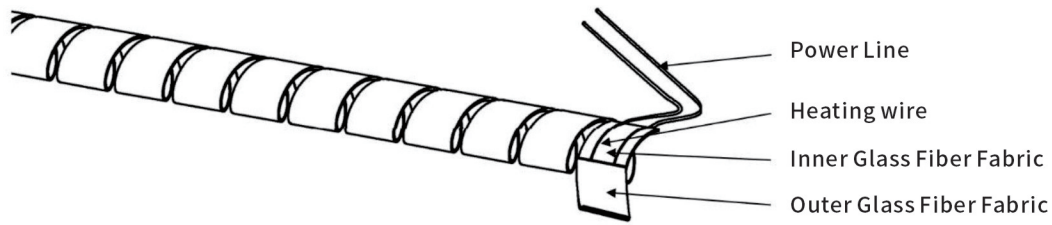
Product Structure:

The main body of the product consists of two layers of silicone rubber glass fiber, with a heating wire in the middle layer. The connection points consist of cold lines connected to the heating wire, with connection modes including basic, parallel, and series types.



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Basic Type



Parallel Type



Series Connection Type

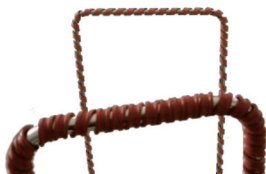
Typical Application Scenarios:



Spiral Metal Heating Cable



Insulated Pipeline Heating Cable



Right Angle Metal Pipeline Heating Cable



Flexible Rubber Hose Heating Cable



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Product Parameters:

| | |
|-----------------------------------|--|
| Rated voltage: | 12V-220V (depending on the application scenarios) |
| Maximum exposure temperature: | +250°C |
| Minimum installation temperature: | -60°C |
| Protection level: | Ip66 |
| Power Density: | 0.06~3 W/CM ² |
| Applicable Pipe Diameters: | Φ4 mm-Φ20 mm 1/8-1 inc |
| Maximum holding temperature: | 150°C |

Product Features:

- 1. Flexible Structure, Easy to Install:**
Spiral heating cables typically have a soft structure, allowing them to flexibly adapt to various shapes and sizes of heated objects.
- 2. Uniform Temperature, High Heating Efficiency:**
Spiral heating cables maintain temperature uniformity during heating, as their spiral design allows heat to be evenly distributed across the heated object.
- 3. Safe and Reliable, Long Service Life:**
Spiral heating cables are usually made with high-quality insulation materials, such as multi-layer alkali-free glass fiber or silicone rubber, ensuring reliable insulation and heat resistance during use.
- 4. Strong Adaptability, Wide Range of Applications:**
Due to their flexible structure and efficient heating performance, spiral heating cables are widely used in various industrial equipment and everyday life.
- 5. Easy Maintenance and Care:**
Spiral heating cables are easy to maintain and care for during use.

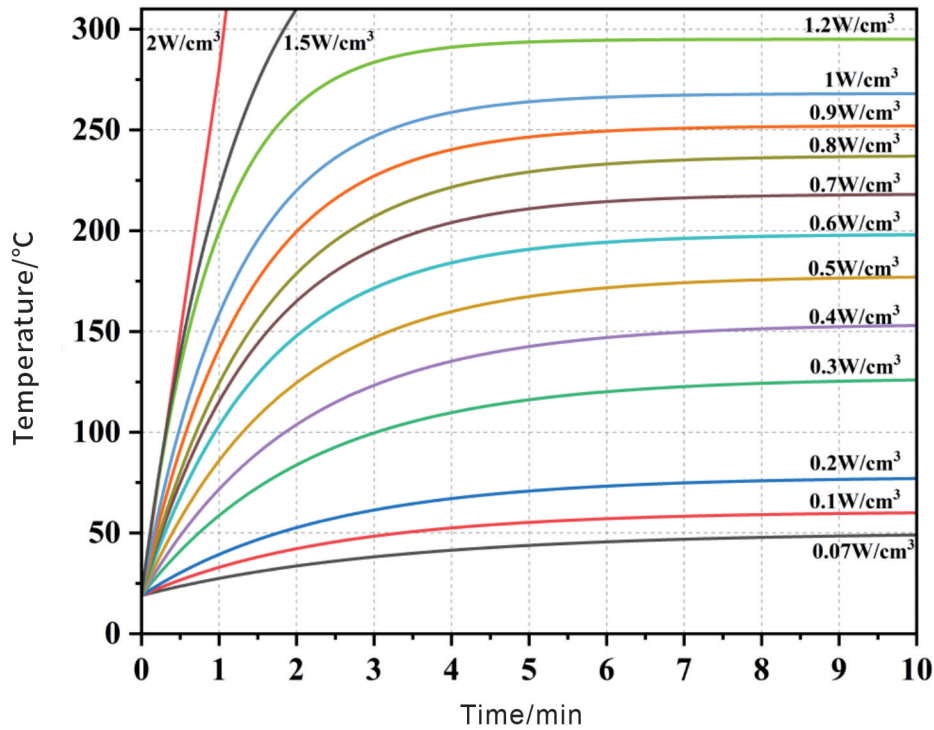
Power Density:

In various applications, the most common power density is 0.6 to 0.8 W/cm². Based on the installation status of the spiral heating cable, there can be significant variations due to different temperature control methods. Please consult customer service before selecting products.



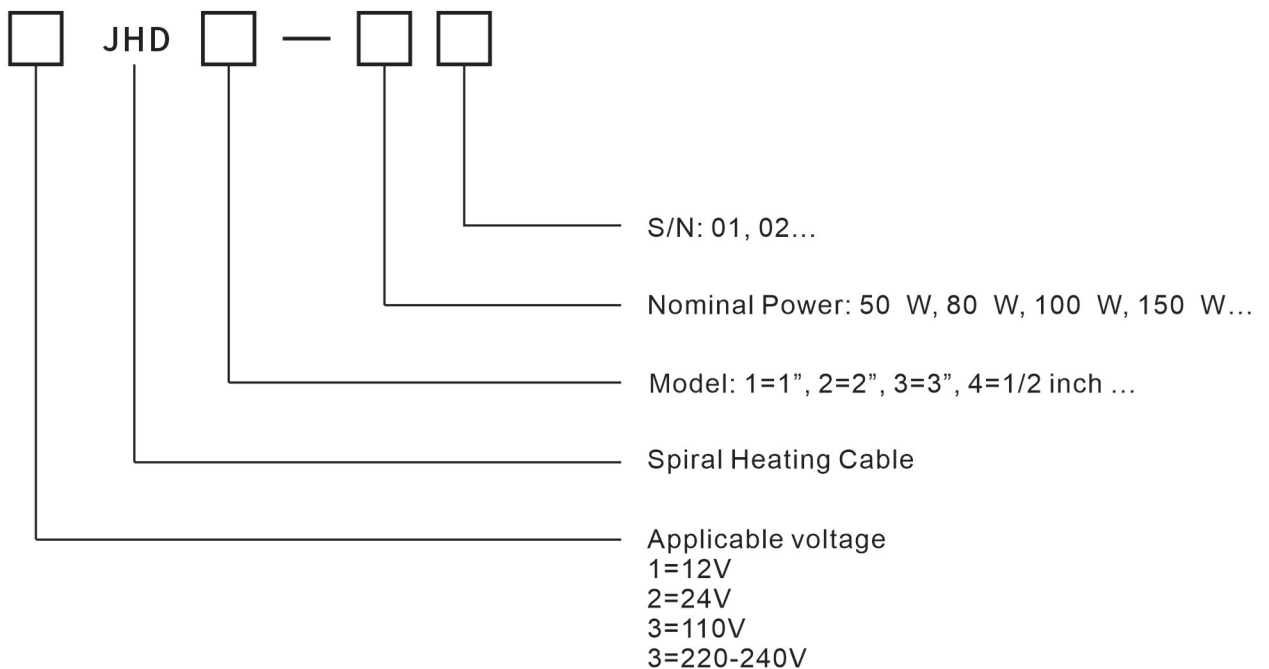
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- ◆ The surface temperature when the heater is suspended in still air at 20°C.
- ◆ The temperature of the spiral heating cable will change depending on the environment, material of the heated object, shape, etc.

Определение типа :



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Usage Method:

The usage method for the spiral heating cable typically includes the following steps:

1. Measure the Length and Diameter of the Pipe: Select the appropriate specification of the spiral heating cable based on the actual length and diameter of the pipe to be heated.
2. Wrap the Heating Cable: Uniformly wrap the spiral heating cable around the pipe in a spiral manner, ensuring the heating cable closely adheres to the pipe.
3. Secure the Heating Cable: Use aluminum tape or other securing materials to fix the heating cable onto the pipe in the spiral direction.
4. Insulation Layer: Cover the insulation layer over the spiral cable, ensuring it fits snugly against the spiral heating cable.
5. Connect the Power Supply: Connect an appropriate power supply for heating, based on the voltage and power requirements of the heating cable.

Precautions:

- ◆ To prevent fire hazards, do not use this product to heat or insulate flammable or ignitable liquids.
- ◆ To prevent fire hazards, do not use this product in flammable or explosive environments.
- ◆ This product does not have a forced OFF function. When not in use, please unplug the power cord from the power source.
- ◆ When storing this product or disassembling the heater, be sure to cut off the power supply.
Wait until the heater's temperature drops to an ideal level before disassembling.
- ◆ Ensure that the liquid level in the stainless steel pot exceeds the installation position of the heater.
- ◆ Be careful not to let liquids inside the container adhere to the heater.
- ◆ Do not pull the wires forcefully. If breaking occurs, it will affect the product's use.
- ◆ To avoid breaking the internal wires of the heater, do not bend or fold this product during installation.
- ◆ To prevent breaking the internal wires of the heater, the surface must be free of scars and should not be struck with hard objects.
- ◆ The surface temperature of the heater will rise during use; to avoid burns, do not touch the heater with bare hands.
- ◆ This product is for indoor use only. Static electricity may be generated when using this product in a dry environment, which is not a performance issue of the product.
- ◆ This product requires a compatible temperature controller for use.



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