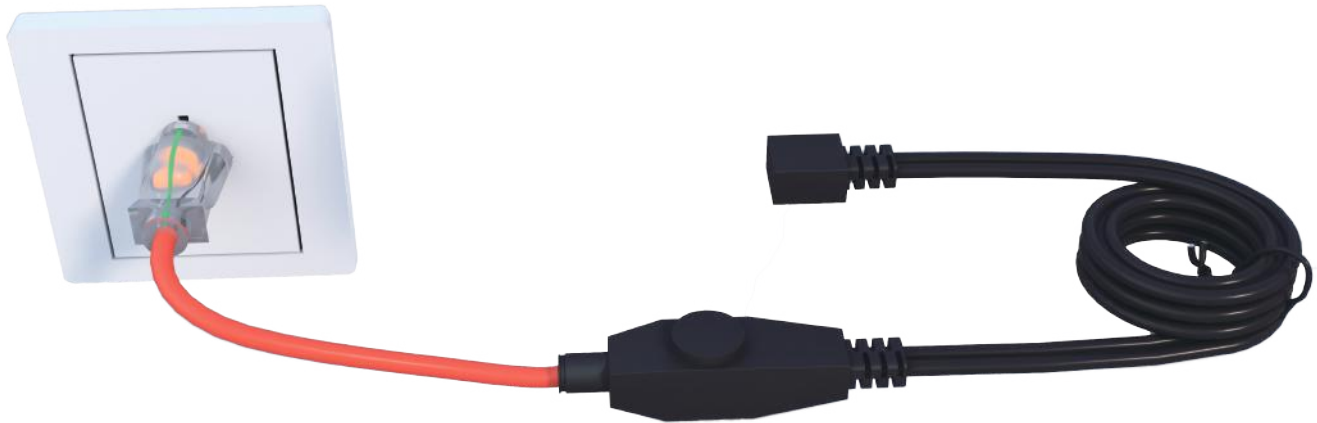




JHSD-F Product Technical Specification

JHSD-F is a pre-assembled constant wattage heating product. Its structural feature is that the resistance wire as the heating element is fixed on the central reinforcement rope in a winding manner, thus having higher tensile strength. The overall structure consists of heating wire, insulation, shielding and outer jacket. The core feature is that the joint part is equipped with a built-in thermostat, which can perform energy-saving control according to the ambient temperature, and both the joints and end seals are injection molded, which provides a more stable connection and better waterproof performance. The main function of this product is to provide heat to PVC or metal pipes in cold seasons to prevent the pipes from freezing and ensure water flow.



II. Product Structure

The reinforcing wire provide high mechanical strength to the product.

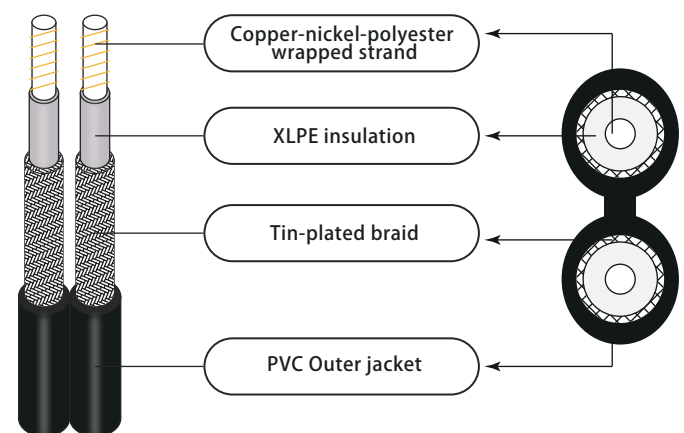
The heating element is made of alloy resistance wire, which is wound around a nylon strand. The dual-conductor design provides dual heating.

The insulation layer is made of XLPE (cross-linked polyethylene), providing high-performance insulation for the conductors.

The braiding layer is made of tin-plated copper wires, providing shielding and grounding.

The outer jacket is made of PVC, provides excellent mechanical protection, as well as water and corrosion resistance.

III. Product Structure Diagram



IV. Product Features

- The heating element adopts a reinforced rope and wire winding structure, and the heating cable part is soft and high-strength, which can perfectly fit the pipe surface and has high heating efficiency.
- The Built-in thermostat automatically turns on/off based on ambient temperature, providing energy-saving and easy-to-use operation.
- The Built-in thermostat automatically shuts off power when the environment temperature exceeds 10° C, preventing overheating for safe use.
- The connectors and end seals are injection molded, with IP67 waterproof and dustproof rating, suitable for harsh installation environments.
- Injection-molded connection enhanced integrated protection, with secure joints, ensuring operation safety and long service life.
- The special heating cable design, with a width of more than 12mm, increases the contact area between the heating cable and the pipe, greatly improving the heating efficiency.
- Wide application: The sheath is made of high quality PVC material, adapting to the harsh environment.



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- Tinned copper braid has better anti-oxidation and anti-corrosion properties than bare copper. The ground wire is safe to use and has a long service life.
- The product is pre-assembled, allowing for convenient plug-and-play operation.

V. Product Technical Specification

Product Structure:	Dual conductor
Voltage:	120/240 VAC
Output Power:	7W/ft
Heating Cable Length:	30-80ft
Bending radius:	1 inch
Insulation Material:	XLPE
Sheath Material:	PVC
Minimum installation temperature:	15°F (-10°C)
Cold Lead Information:	2 ft length 18/3 with plug (Orange)

Model	Power (W)	Voltage (V)	Hot Lead Length(FT)	Hot Lead Length(m)	Total Resistance (Ω)	Current (A)	Product Outer Diameter (mm)
JHSD-F 3FT	21	120	3	0.9	686	0.18	4.8*12.3
JHSD-F 6FT	42	120	6	1.8	343	0.35	4.8*12.3
JHSD-F 9FT	63	120	9	2.7	229	0.53	4.8*12.3
JHSD-F 12FT	84	120	12	3.7	171	0.7	4.8*12.3
JHSD-F 15FT	105	120	15	4.6	137	0.88	4.8*12.3
JHSD-F 18FT	126	120	18	5.5	114	1.05	4.8*12.3
JHSD-F 24FT	168	120	24	7.3	86	1.4	4.8*12.3
JHSD-F 30FT	210	120	30	9.1	69	1.75	4.8*12.3
JHSD-F 40FT	280	120	40	12.2	51	2.33	4.8*12.3
JHSD-F 60FT	420	120	60	18.3	34	3.5	4.8*12.3
JHSD-F 80FT	560	120	80	24.4	26	4.67	4.8*12.3



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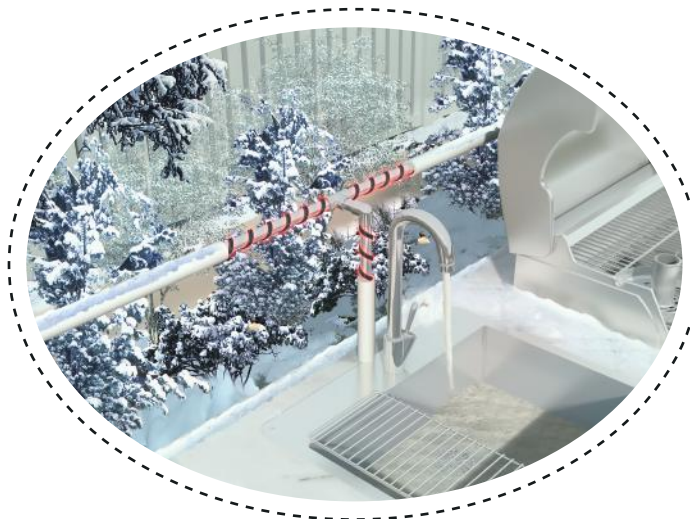
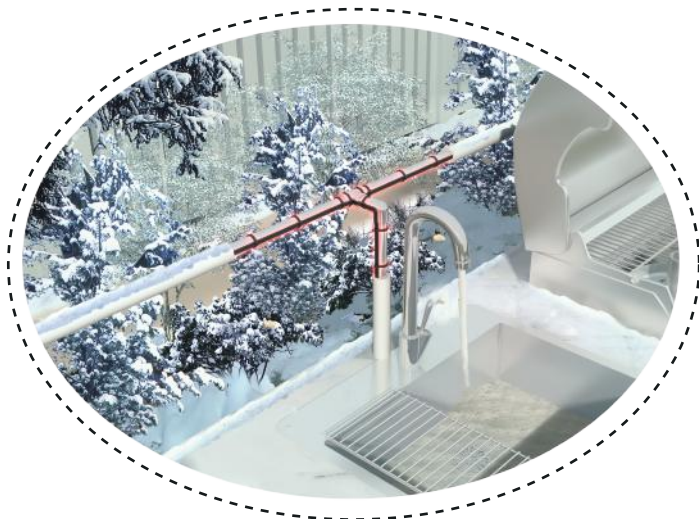
VI. Product Certifications (JHSD)

Region:	Europe
Application:	Residential water pipe anti-freezing
Rated voltage:	230 Vac
Power:	12, 15W/M
Minimum installation temperature:	-10 °C
Minimum Bending Radius:	25 mm
Certification:	CE, TUV

Region:	North America
Application:	Residential water pipe anti-freezing
Rated voltage:	120/240 Vac
Power:	7W/ft
Minimum installation temperature:	-10 °C
Minimum Bending Radius:	25 mm
Certification:	cETLus CSA

VII. Product Applications:

This product is primarily designed for the following scenarios: It can provide heating for PVC or metal pipes in cold seasons to prevent the pipes from freezing and ensure water flow in the pipes. In order to match a variety of pipes, we can install them by straight laying or winding, and quickly check the power supply status of the equipment through the lighted plug.



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