



### JHRD-F Product Technical Specification

JHRD-F is a pre-assembled constant wattage heating product, which is composed of alloy wire as heating element, insulation, shielding and outer jacket. Its core feature is that both the joints and end seals are injection molded, which provides a more stable connection and better waterproof performance. The most common use of this product is to prevent snow accumulation and ice dams on roofs and to keep gutters and downspouts clear.



## II. Product Structure

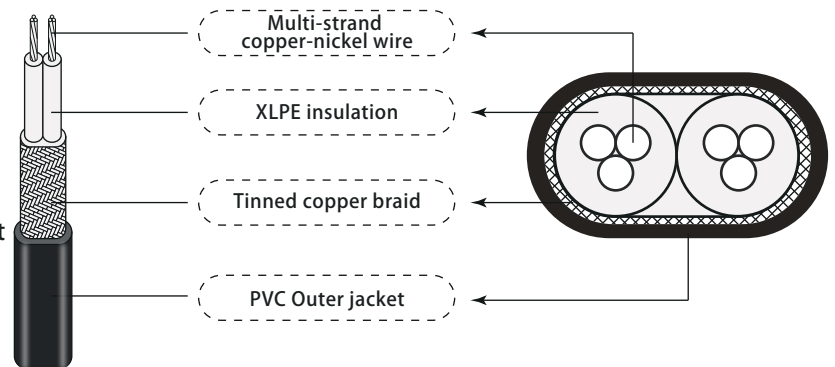
The heating element is made of alloy resistance wire. The dual-conductor design provides dual heating.

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

## III. Product Structure Diagram



## IV. Product Features

- Multiple strands of heating wire are soft and easy to bend, with a smaller bending radius, suitable for a variety of installation scenarios, and can be bent and arranged at will.
- 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.
- 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.
- UV Resistant: The sheath is made of high quality black UV-resistant PVC material with UV-resistant formula, which can be used in strong UV environments.
- The transparent plug with light allows the user to visually confirm the power-on status, which facilitates troubleshooting.



86 Guandou Street, Jiujiang district, Wuhu City, Anhui Province, P.R. China, 241000





## V. Product Technical Specification

Product Structure:	Dual conductor, dual heating
Voltage:	120/240 VAC
Output Power:	5W/ft
Heating Cable Length:	20-240 ft
Bending radius:	1 inch
Insulation Material:	XLPE
Sheath Material:	PVC
Minimum installation temperature:	15°F (-10°C)
Cold Lead Information:	6 ft length 18/3 with plug (black)

Model	Power (W)	Voltage (V)	Hot Lead Length(FT)	Hot Lead Length(m)	Total Resistance (Ω)	Current (A)	Product Outer Diameter (mm)
JHRD-F 20FT	100	120	20	6.1	144	0.83	3.9*6.2
JHRD-F 30FT	150	120	30	9.1	96	1.25	3.9*6.2
JHRD-F 60 FT	300	120	60	18.3	48	2.5	3.9*6.2
JHRD-F 80 FT	400	120	80	24.4	36	3.33	3.9*6.2
JHRD-F 100FT	500	120	100	30.5	29	4.17	3.9*6.2
JHRD-F 120FT	600	120	120	36.6	24	5	3.9*6.2
JHRD-F 160FT	800	120	160	48.8	18	6.67	3.9*6.2
JHRD-F 200FT	1000	120	200	61	14	8.33	3.9*6.2
JHRD-F 240FT	1200	120	400	73.2	12	10	3.9*6.2



86 Guandou Street, Jiujiang district, Wuhu City, Anhui Province, P.R. China, 241000



[www.ahjiahong.com](http://www.ahjiahong.com)



[info@ahjiahong.com](mailto:info@ahjiahong.com)



## VI. Product Certifications (JHRD)

Region:	North America
Application:	Residential roof snow and ice melting
Rated voltage:	120 Vac
Power:	5 W/ft
Minimum installation temperature:	0 °C
Minimum Bending Radius:	25 mm
Certification:	cETLus CSA

## VII. Product Applications

This product is primarily designed for the following scenarios: It can help prevent the accumulation of snow on rooftops and ensure that gutters and downspouts remain clear and unobstructed, allowing for proper drainage of melted snow and ice.



86 Guandou Street, Jiujiang district, Wuhu City, Anhui Province, P.R. China, 241000



[www.ahjiahong.com](http://www.ahjiahong.com)



[info@ahjiahong.com](mailto:info@ahjiahong.com)