

HEATIT PLSR

HEATIT PLSR Self-Regulating Heating Cable Instruction Manual

Model: 50-feet

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1. INTRODUCTION

The HEATIT PLSR Self-Regulating Heating Cable is designed to provide frost protection for water pipes and assist in snow melting on roofs and gutters. This manual provides essential information for the safe and effective installation, operation, and maintenance of your heating cable.



Image 1.1: HEATIT PLSR Self-Regulating Heating Cable in use for pipe and roof protection. Using heating cables helps prevent pipes from bursting, avoids roof ice dam formation, reduces maintenance costs, and contributes to environmental protection and energy conservation.



Image 1.2: Benefits of using heating cables for frost and ice protection.

2. SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or property damage.

- The HEATIT PLSR heating cable is ETL and UL certified, ensuring compliance with North American safety standards.
- Ensure the power supply matches the cable's rated voltage (110V-120V).
- Do not cut or splice the heating cable.
- Do not install the cable in areas where it can be damaged by sharp objects or excessive bending.
- Always disconnect power before installing or servicing the heating cable.
- The indicator light on the plug shows that power is ON. It does not necessarily mean the cable is heating. The cable heats only when the integrated thermostat senses low temperatures.



Image 2.1: Essential tips for understanding the heating cable's operation and components.



Image 2.2: Safety certifications and product features.

3. PRODUCT OVERVIEW

The HEATIT PLSR Self-Regulating Heating Cable is designed for efficient frost protection and de-icing. Its self-regulating technology automatically adjusts heat output based on ambient temperature, preventing overheating and ensuring energy efficiency.

Key Features:

- **Self-Regulating Technology:** Automatically adjusts heat output at each point along the cable, eliminating the risk of overheating or burnouts from overlapping.
- **Pre-assembled:** Ready for immediate use.
- **Durable Construction:** Features an industrial-grade outer jacket for anti-freeze, wear resistance, high temperature resistance, and corrosion resistance, ensuring a long service life.
- **Wide Application:** Suitable for both residential and commercial use on various pipe materials and roof types.

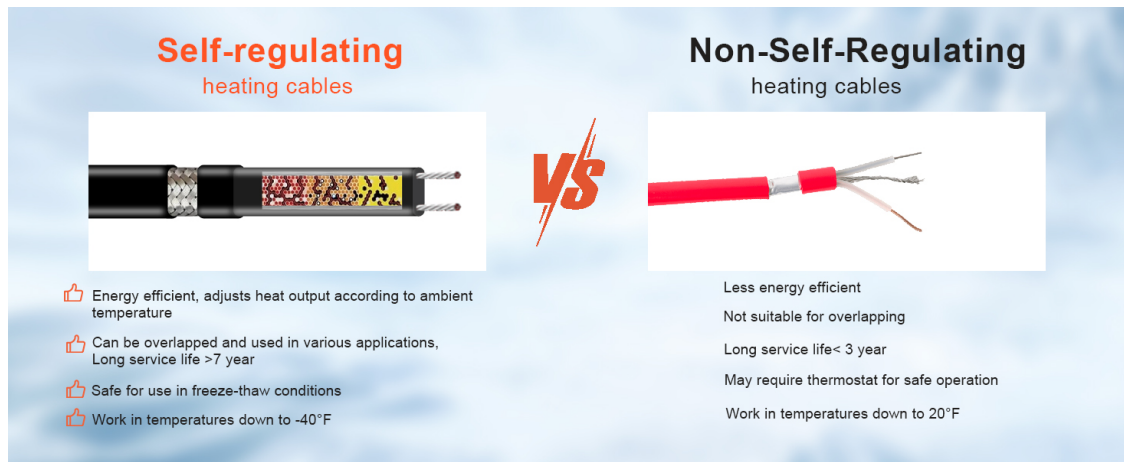


Image 3.1: Comparison of self-regulating and non-self-regulating heating cables.



Image 3.2: Industrial-grade outer jacket and temperature ratings.

4. SPECIFICATIONS

The following table details the technical specifications for the HEATIT PLSR Self-Regulating Heating Cable:



Image 4.1: Detailed product specifications.

Feature	Detail
Listing	UL, ETL
Rated Voltage	110V-120V
Output (ice & snow @ 50°F/10°C)	7 W/ft
Output (@ 40°F/5°C)	8.5 W/ft
Output (@ 32°F/0°C)	10 W/ft
Length	50 feet
Cold Lead	10ft cord with plug
Cable Bus Wires Gauge (AWG)	16
Conductor Insulation	Self Regulating Conductive Core

Feature	Detail
Max Exposure Temperature	185°F (85°C)
Min. Circuit Breaker Size (Amps)	15
Normal cable Thickness (in/mm)	0.23 (5.8)
Normal cable width (in/mm)	0.42 (10.6)
Electrical Classification	Nonhazardous & hazardous
Outer Jacket	TPE
Braid	Tinned Copper
Inner Jacket	Modified Polyolefin

5. INSTALLATION

The HEATIT PLSR heating cable offers flexible installation options for both pipe freeze protection and roof de-icing. Ensure all local electrical codes are followed during installation.

5.1. Pipe Freeze Protection

The cable can be installed on various pipe materials, including Pex, Galvanized, ABS Plastic, Steel, Copper, and PVC Plastic.

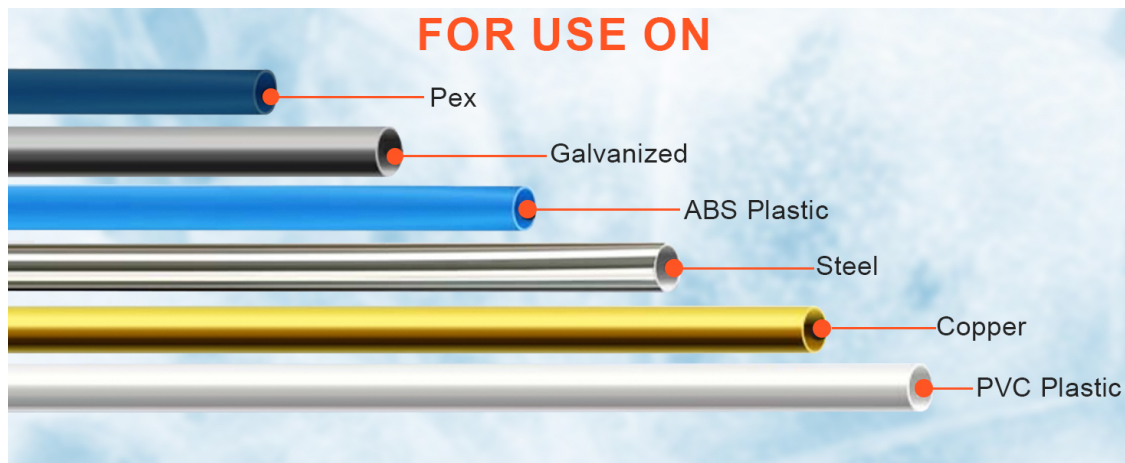


Image 5.1: Compatible pipe materials for heating cable installation.

The cable can be installed using straight tracing or spiral tracing methods.



Image 5.2: Flexible installation methods for pipe protection.

- Preparation:** Ensure the pipe surface is clean and dry.
- Attachment:** Secure the heating cable along the length of the pipe using electrical tape or cable ties at regular intervals (e.g., every 12 inches). For valves or irregular shapes, spiral wrap the cable to ensure full coverage.
- Insulation:** For optimal performance and energy efficiency, insulate the pipe and cable assembly with appropriate pipe insulation.
- Power Connection:** Plug the pre-assembled cold lead into a grounded 110V-120V outlet

protected by a 15 Amp circuit breaker.

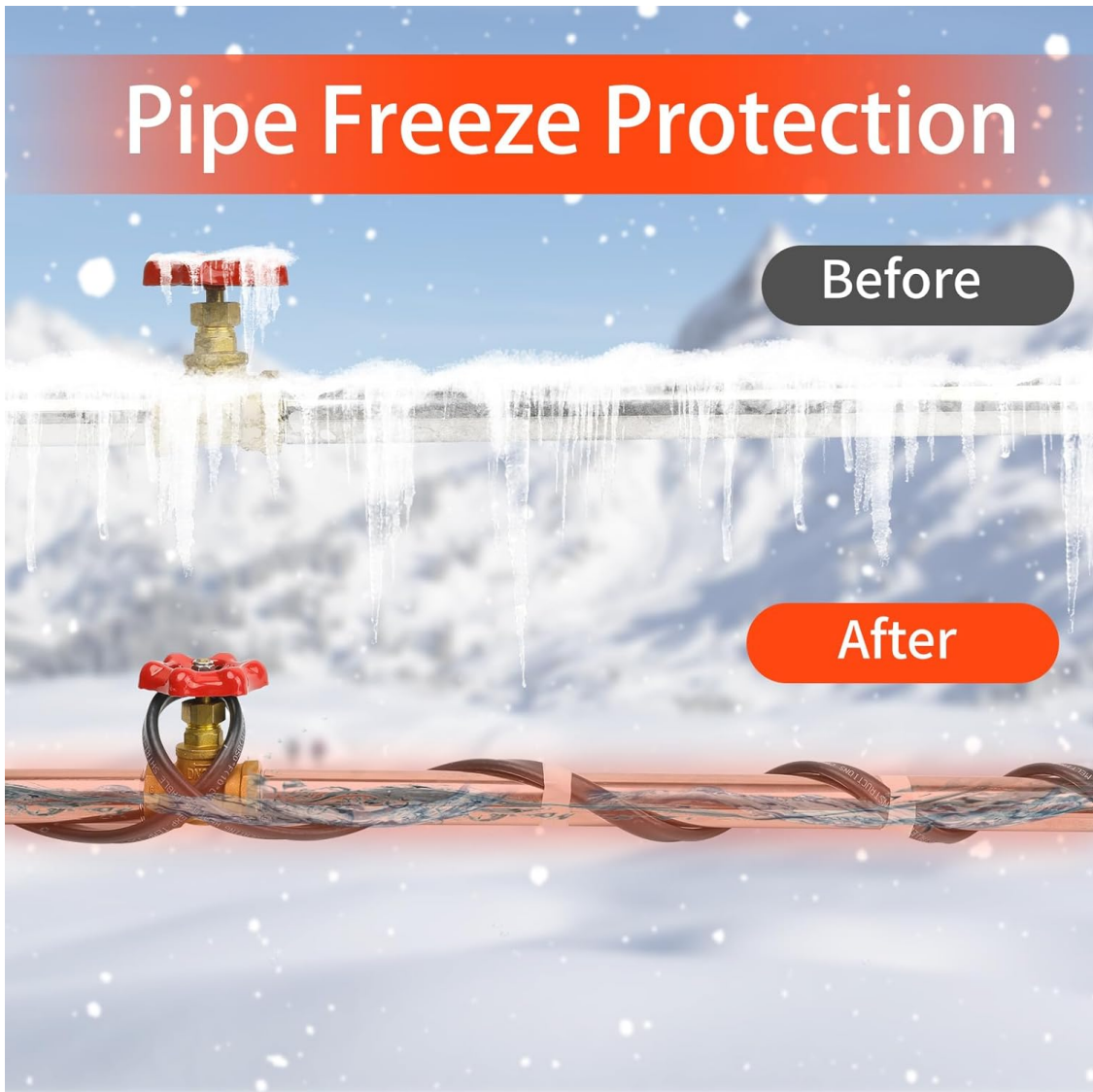
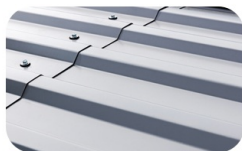


Image 5.3: Visual representation of pipe freeze protection effectiveness.

5.2. Roof De-icing

The heating cable can be used on various roof types, including Metal, Slate, Stone, Rubber, Asphalt, Ceramic, Wood, and Composite roofs.

PROTECT VARIOUS ROOFS



Metal Roofs



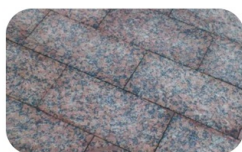
Slate Roofs



Stone Roofs



Rubber Roofs



Asphalt Roofs



Ceramic Roofs



Wood Roofs



Composite Roofs

Image 5.4: Compatible roof types for de-icing cable installation.

Roof De-icing



Image 5.5: Roof de-icing application with heating cable.

1. **Planning:** Determine the areas prone to ice dam formation, typically along eaves, in gutters, and downspouts.
2. **Pattern:** Install the cable in a zigzag or serpentine pattern along the roof edge and inside gutters and downspouts. Use roof clips or fasteners designed for heating cables to secure it.
3. **Drainage:** Ensure the cable extends into downspouts to allow melted water to drain freely.
4. **Power Connection:** Plug the pre-assembled cold lead into a grounded 110V-120V outlet protected by a 15 Amp circuit breaker.

6. OPERATION

The HEATIT PLSR heating cable is designed for automatic operation due to its self-regulating properties.

- Once plugged into a power source, the cable's internal thermostat will sense the ambient temperature.
- When temperatures drop to near freezing, the cable will automatically increase its heat output to prevent freezing.
- As temperatures rise, the cable's heat output will decrease, conserving energy.
- The lighted plug indicates that the cable is receiving power. This light does not indicate that the cable is actively heating, only that it is powered on and ready to heat when needed.

7. MAINTENANCE

Minimal maintenance is required for the HEATIT PLSR heating cable to ensure its longevity and effective operation.

- **Seasonal Inspection:** Before the onset of cold weather each year, visually inspect the entire length of the cable for any signs of damage, cuts, or fraying.
- **Connection Check:** Ensure the plug and any connections are secure and free from corrosion.
- **Clear Debris:** For roof installations, ensure gutters and downspouts are clear of leaves and debris that could impede water flow.
- **Avoid Damage:** Take care not to damage the cable during other maintenance activities (e.g., roof cleaning, painting).

8. TROUBLESHOOTING

If you encounter issues with your HEATIT PLSR heating cable, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Cable not heating	No power to the outlet	Check the circuit breaker. Ensure the outlet is functional.
	Ambient temperature is above freezing point	The self-regulating cable will only heat when temperatures are low enough. This is normal operation.
	Damaged cable or plug	Inspect the cable and plug for visible damage. If damaged, discontinue use and replace.
Ice still forming on pipes/roof	Insufficient cable coverage or improper installation	Review installation instructions. Ensure adequate cable length and proper wrapping/pattern for the application.
	Lack of insulation (for pipes)	Add or improve pipe insulation for better heat retention.

If the problem persists after attempting these solutions, contact customer support.

9. WARRANTY & SUPPORT

9.1. Limited Warranty

The HEATIT PLSR Self-Regulating Heating Cable comes with a **10-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service conditions. Please retain your proof of purchase for warranty claims.

9.2. Product Insurance

Our products are backed by a **\$2 million insurance policy**, providing additional assurance regarding quality, safety, and your peace of mind.

9.3. Transparency Program

This product is part of the Transparency Program, which safeguards its authenticity. Each product features a unique Transparency code, guaranteeing the purchase of authentic brand products and underscoring HEATIT's commitment to quality and customer satisfaction.

UL and ETL Certification

Discover peace of mind with our electric underfloor heating products, certified by globally recognized organizations ETL and UL. This validation underscores our commitment to quality, safety, and efficiency, ensuring your home is warmed reliably and securely.

\$2 Million Insurance

Opt for security with our insured products, backed by a \$2 million policy—ensuring quality, safety, and your peace of mind. Protect your choice with us.

Transparency

The Transparency Program safeguards this product, enabling you to authenticate its genuineness. Each of our products features a unique Transparency code. This program guarantees the purchase of authentic brand products and underscores HEATIT's promise to product quality and customer satisfaction.



Image 9.1: Certifications, insurance, and transparency program details.

9.4. Customer Service

For any questions, technical assistance, or warranty claims, please contact HEATIT customer service. Our dedicated team aims to provide professional feedback within 24 hours. Contact information can typically be found on the product packaging or the official HEATIT website.