

# EasyHeat™ Freeze Free™ Cable

Pipe Freeze Protection, Self-Regulating, Cut-to-Length. For Residential Applications.

## Product Overview

- Freeze Free™ self-regulating pipe heating cables provide flexible protection against pipe freeze-ups.
- Cut-to-length capability on the job is ideal for installations that require protection of numerous pipes of varied lengths.
- The self-regulating effect of the cable reduces power consumption when the pipe does not require freeze protection.

## Applications

- Residential metal or plastic water supply and drain pipes subject to freezing temperatures.
- Water supply lines underneath mobile and manufactured homes.
- Cottages, barns and outbuildings that are not regularly heated.

## Features

- 120 Vac operating voltage.
- Keeps plastic and metal water pipes from freezing down to -60°F (-51°C).
- Braided metal jacket provides an electrical ground as well as protection against damage in dry locations.
- Cables are rated at 3 Watts per foot (0.30 m), +10°C (+50°F); 22.86 m (75 ft) maximum circuit length.
- Available on reels of 100 ft, 300 ft, and 500 ft (30.48 m, 91.44 m, and 152.40 m) and can be cut to desired lengths per application.
- Pre-packaged lengths of 5 ft and 15 ft (1.52 m and 4.57 m) are also available.
- Can be wrapped over itself (overlapped), if necessary, when installed on pipes, valves or flanges.
- One year limited warranty.

## Related Products

- Fused plug kits connect one Freeze Free™ cable into an electrical outlet and a cable end seal to ensure safe and proper usage:
  - 10802
  - 10803
- It is recommended that heating cables for freeze protection be controlled by a thermostat to minimize energy consumption. Control options available:
  - EH38 Pre-Set Thermostat

## Accessories

- Installation tape and caution labels are available. See EasyHeat™ Freeze Free™ Accessories.



Freeze Free™ Cable



10802 Connection Kit



## Certifications

- UL Listed to US Safety Standards and CSA Certified.

### Notes

- Per NEC and CEC requirements ALWAYS use a ground fault protection device (GFEP) to reduce the danger of fire from a damaged or improperly installed heating cable. Electrical fault currents caused by damaged or improperly installed cable MAY NOT BE LARGE ENOUGH to trip a conventional circuit breaker.
- Heating cables must be installed in compliance with all national, state/provincial and local codes. Check with your local electrical inspector for specific details.
- The Freeze Free™ orange cable connector housing and fiberglass thermal insulation with vapor seal must be kept dry and away from water to avoid possible electrical shock or fire.
- Only use on metal and plastic domestic water pipes (such as PVC, PEX or polybutylene).
- Never use on flexible vinyl tubing (garden hose), on buried pipes, on pipes carrying any fluid other than water, or any non-pipe heating applications such as roof and gutter de-icing or driveway snow melting.
- Use 1/2 in (12.77 mm) fiberglass pipe insulation with vapor seal.
- Never expose the cable to temperatures above +150°F (+66°C), this will shorten the life of the cable.
- Only use the fused plug kits 10802 and 10803 for making connections.
- To avoid short circuits, never twist the wires inside the Freeze Free cable together or allow them to touch each other or the outer braid.
- Only cut the Freeze Free™ cable jacket at the ends when attaching the fused plug and end seal.
- Never use nails, metal clamps, wires or other devices that might cut the cable to support the cable along the pipe.
- Only use 1/2 in (12.7 mm) or 1 in (25.4 mm) vinyl or fiberglass tape to attach cable to pipe.

# EasyHeat™ Pipe Freeze Protection Selection Guide

Criteria	AHB	Freeze Free	PSR	SR Trace	TSR	HSR	HB/HB2
<b>1. What is the pipe application?</b>							
Typical Application	Residential	Residential	Residential Commercial	Residential Commercial	Commercial	Commercial	Commercial
Water Supply Line	✓	✓	✓	✓	✓	✓	✓ ②
Drain Line	—	✓	✓	✓	✓	✓	✓
Oil line/Fuel Line	—	—	✓	✓	✓	✓	—
<b>2. What is the manner of the install?</b>							
Installation Manner	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe
<b>3. What is the size/diameter of the pipe?</b>							
Pipe Diameter	3/8 in - 1-1/2 in	1/2 in - 2 in	1/2 in - 2-1/2 in	1/2 in - 8 in ①	1/2 in or more ①	1/2 in or more ①	3/8 in - 6 in
<b>4. What is the material of the pipe?</b>							
Plastic (PEX, PVC, Polybutelene, etc.)	✓	✓	✓	✓	✓	✓	—
Metal (Copper, Steel, etc.)	✓	✓	✓	✓	✓	✓	✓
<b>5. Where is the location of the pipe?</b>							
Above Ground	✓	✓	✓	✓	✓	✓	✓
Below Ground	—	—	✓ ①	✓ ①	✓ ①	✓ ①	—
Wet Location	—	—	✓	✓	✓	✓	—
Dry Location	✓	✓	✓	✓	✓	✓	—
<b>6. What is the power rating?</b>							
Power Rating	Constant: 7 Watts/ft	Self-regulating: 3 Watts/ft @ +50°F (+10°C)	Self-regulating: 5 Watts/ft @ +50°F (+10°C)	Self-regulating: 3 Watts/ft @ +50°F (+10°C) 5 Watts/ft @ +50°F (10°C) 8 Watts/ft @ +50°F (10°C)	Self-regulating: 3 Watts/ft @ +50°F (+10°C) 5 Watts/ft @ +50°F (10°C) 8 Watts/ft @ +50°F (10°C) 10 Watts/ft @ +50°F (+10°C)	Self-regulating: 5 Watts/ft @ +50°F (+10°C) 10 Watts/ft @ +50°F (10°C) 15 Watts/ft @ +50°F (10°C) 20 Watts/ft @ +50°F (+10°C)	Constant: 7 Watts/ft
<b>7. What is the available supply voltage?</b>							
Supply Voltage (Vac)	120	120	120, 240	120, 208, 240, 277	120, 208, 240, 277	120, 208, 240, 277	120, 240
Power Cord/Termination	2 ft (0.6 m)	2.5 ft (0.8 m) ③	2.5 ft (0.8 m)	③	①	①	2 ft (0.6 m)
<b>8. How much length of heating cable is needed?</b>							
Cable Lengths	3 ft - 80 ft (0.91 m - 24.4 m)	Cut-to-length [75 ft (22.9 m) Max]	6 ft - 100 ft (1.8 m - 30.5 m)	Cut-to-length ④	Cut-to-length ①	Cut-to-length ①	3.28 ft to 78.74 ft (1 m - 24 m)

✓ Applicable

— Not Applicable

① Verify with your local EasyHeat sales representative.

② Primarily for HVAC/Refrigeration applications.

③ Additional accessories are required for cable termination. See catalog page of the specific cable accessories.

④ See catalog page of the specific cable.

# EasyHeat™ Pipe Temperature Maintenance Product Selection Guide

Criteria	PSR	SR Trace	TSR ②	HSR	MI Trace
<b>1. What is the maintenance temperature?</b>					
Maximum Maintenance Temperature	+150°F (66°C)	+150°F (+66°C)	+150°F (+66°C)	+250°F (+121°C)	+400°F (+205°C)
<b>2. What is the required maximum intermittent exposure temperature?</b>					
Maximum Intermittent Exposure Temperature	+185°F (85°C)	+185°F (+85°C)	+185°F (+85°C)	+420°F (+216°C)	+1100°F (+593°C)
<b>3. Where is the location of the installation?</b>					
Indoor	✓	✓	✓	✓	✓
Outdoor	✓	✓	✓	✓	✓
<b>4. What is the classification of the area where the installation will be?</b>					
Area Classification	Ordinary	Ordinary	Ordinary Class I, Division 2	Ordinary Class I, Division 2	Ordinary Class I, Division 2
T-rating for Hazardous (Classified) Locations	—	—	T5	T3	T1 to T6 (application dependent)
<b>5. What is the size/diameter of the pipe?</b>					
Pipe Diameter	1/2 in - 8 in	1/2 in - 8 in	1/2 in or more	1/2 in or more	①
<b>6. What is the pipe material?</b>					
Plastic (PEX, PVC, Polybutelene, etc.)	✓	✓	✓	✓	—
Metal (Copper, Steel, etc.)	✓	✓	✓	✓	✓
<b>7. What is the required outer jacket?</b>					
Polyolefin	✓	✓	✓	—	—
Fluoropolymer	✓	✓	✓	✓	—
Alloy 825	—	—	—	—	✓
<b>8. What is the power rating?</b>					
Power Rating	Self-regulating: 5 Watts/ft @ +50°F (+10°C)	Self-regulating: 3 Watts/ft @ +50°F (+10°C) 5 Watts/ft @ +50°F (+10°C) 8 Watts/ft @ +50°F (+10°C)	Self-regulating: 3 Watts/ft @ +50°F (+10°C) 5 Watts/ft @ +50°F (+10°C) 8 Watts/ft @ +50°F (+10°C) 10 Watts/ft @ +50°F (+10°C)	Self-regulating: 5 Watts/ft @ +50°F (+10°C) 10 Watts/ft @ +50°F (+10°C) 15 Watts/ft @ +50°F (+10°C) 20 Watts/ft @ +50°F (+10°C)	Constant: Up to 88 Watts/ft (Max)
<b>9. What is the available supply voltage?</b>					
Supply Voltage (Vac)	120, 240	120, 208, 240, 277	120, 208, 240, 277	120, 208, 240, 277	120, 208, 240, 277, 347, 480, 600
<b>10. How much length of heating cable is needed?</b>					
Cable Lengths	6 ft - 100 ft (1.8 m - 30.5 m)	Cut-to-length ①	Cut-to-length ①	Cut-to-length ①	Made to order ①

✓ Applicable

— Not Applicable

① Verify with your local EasyHeat sales representative.

② All TSR cables are also available with fluoropolymer over jacket (for enhanced chemical resistance, change suffix -J to -F).