EasyHeat™ AHB Cable

Pipe Freeze Protection, Constant Wattage, Pre-Terminated. For Residential Applications.

Product Overview

- The AHB automatic electric water pipe heating cable is a pre-assembled and ready-to-install, cable that prevents metal and plastic supply pipes from freezing.
- AHB units are activated and de-activated by an integral energy saving thermostat.

Applications

- Suitable for commercial and residential metal or plastic water supply pipes subject to freezing temperatures.

Features

- Keeps water flowing at ambient temperatures down to –40°F (–40°C).
- Cables are rated at 7 Watts per foot (0.30 m).
- Built-in thermostat turns on at +38°F (+3°C) or below and turns off at +45°F (+7°C) and above.
- Plugs into a standard 120 Vac outlet, must be GFCI protected.
- Each cable consists of tough XLPE inner insulation, a continuous ground braid and weather resistant PVC (high-low temperature) outer jacket.
- Protects metal and plastic water-filled pipes up to 1-1/2 in (38.1 mm) in diameter.
- Pre-assembled and ready to install.
- Available in 3 ft (0.9 m) increments up to 18 ft (5.5 m) and longer increments up to 80 ft (24.4 m).
- Integral thermostat saves energy by powering the cable only when needed.
- One year limited warranty.

Accessories

- It is recommended to use EasyHeat™ HCA application tape or good quality electrical tape with a minimum +176°F (+80°C) temperature rating to secure heating cable(s) to pipes. See *EasyHeat™ Pipe Tracing Accessories*.



Certifications

- UL Listed to Canadian Safety Standards and CSA Certified when used in accordance with instructions on water filled metal or plastic pipes.

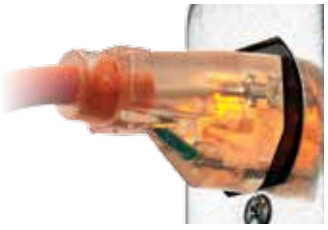
Notes

- *Per NEC and CEC requirements ALWAYS use a ground fault protection device (GFCI) 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.*
- *Do not spiral or wrap the cable around a pipe.*
- *Never cut or splice the cable.*
- *Do not allow the cable to touch or cross itself or another heating cable at any point.*
- *Do not use a cable on a pipe shorter than specified on the cable package and cord tag.*
- *For two cable installation, please refer to product Installation Instructions.*
- *The minimum installation temperature of the cable is +15°F (-10°C).*
- *Maximum 1/2 in (13 mm) fiberglass or equivalent non-flammable foam pipe insulation. Never use insulation that is too thick or that is flammable.*
- *Vapor seal must be used when using fiberglass insulation (not needed for waterproof insulation).*

Illustrated Features

Indicator Light

Indicator light in the AHB plug assures the system has power.



Built-In Thermostat

Energy efficient built-in thermostat provides the right amount of energy only when needed.



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EasyHeat™ Pipe Freeze Protection Selection Guide

Criteria	AHB	Freeze Free	PSR	SR Trace	TSR	HSR	HB/HB2
1 . What is the pipe application?							
Typical Application	Residential	Residential	Residential Commercial	Residential Commercial	Commercial	Commercial	Commercial
Water Supply Line	✓	✓	✓	✓	✓	✓	✓ ②
Drain Line	—	✓	✓	✓	✓	✓	✓
Oil line/Fuel Line	—	—	✓	✓	✓	✓	—
2. What is the manner of the install?							
Installation Manner	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe	Outside Pipe
3. What is the size/diameter of the pipe?							
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
4. What is the material of the pipe?							
Plastic (PEX, PVC, Polybutelene, etc.)	✓	✓	✓	✓	✓	✓	—
Metal (Copper, Steel, etc.)	✓	✓	✓	✓	✓	✓	✓
5. Where is the location of the pipe?							
Above Ground	✓	✓	✓	✓	✓	✓	✓
Below Ground	—	—	✓①	✓①	✓①	✓①	—
Wet Location	—	—	✓	✓	✓	✓	—
Dry Location	✓	✓	✓	✓	✓	✓	—
6. What is the power rating?							
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
7. What is the available supply voltage?							
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)
8. How much length of heating cable is needed?							
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.

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EasyHeat™ Pipe Temperature Maintenance Product Selection Guide

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

EMERSON

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