INSTRUCTION SHEET
AUTOMATIC ELECTRIC WATER PIPE HEATING CABLE

THIS PRODUCT HAS BEEN DESIGNED, MANUFACTURED AND INSTRUCTIONS WRITTEN FOR THE SOLE USE OF PREVENTING WATER PIPES FROM FREEZING. IMPROPER INSTALLATION, USE AND/OR MAINTENANCE OF ELECTRICAL HEATING CABLE CAN CAUSE FIRE, ELECTRIC SHOCK AND/OR FREEZING OF PIPE.

THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY AND CAREFULLY READ THE MESSAGE THAT FOLLOWS.

WARNING: USE ON WATER PIPES ONLY AND COMPLY WITH THESE IMPORTANT INSTRUCTIONS. MINIMUM PIPE LENGTH IS 3 FEET.

PRECAUTIONS

1. If after reading the following instructions, you still have questions regarding installation or operation of this heating cable, call toll-free (800) 562-6587 for assistance. M – F, 9:00 AM – 5:00 PM EST.
2. Heating cables must be installed in compliance with all National, State, Provincial and Local Codes. Check with your local electrical inspector for specific details.
3. These instructions must be saved and made available to the owner and transferred to future owners.
   Before starting, be sure you have selected the correct length heating cable for the pipe to be protected.

ADDITIONAL MATERIALS REQUIRED

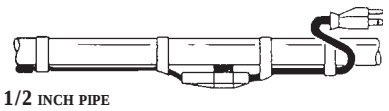
Applications tape/electrical tape. 1/2-inch fiberglass or equivalent **non-flamable** pipe insulation with vapor seal.

SELECTION GUIDE

Choosing the right length of pipe freeze protection cable: Cable should be long enough to run along bottom of horizontal pipes and weather side of vertical pipes (including valves) without crossing or spiraling. Never use a cable longer than the pipe it is intended to protect.

1. Refer to the chart on the package for proper cable selection.
2. Cable will be applied straight along pipe, and will protect pipes up to 1-1/2 inches in diameter.
3. For pipe lengths other than standard heating cable sizes, use two heating cables in parallel on opposite sides of the pipe (see illustration). Maximum "overrun" should not exceed 3 feet. Do not install on pipe shorter than 3 feet.

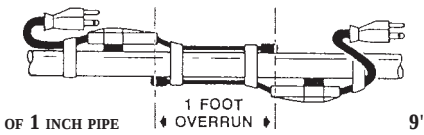
STANDARD LENGTHS



9 FEET OF 1/2 INCH PIPE **9' CABLE**

To protect a pipe with a standard length of heating cable, apply the cable straight along the bottom of horizontal pipe or the "weather side" of vertical pipe following installation instructions.

NON-STANDARD LENGTHS



17 FEET OF 1 INCH PIPE **9' CABLE**

For pipe diameters from 3/8 inches to 3/4 inches, cable can be up to 2 feet shorter than pipe. For pipe diameters from 1 inch to 1-1/2 inches, apply two separate cables on opposite sides of the pipe, starting from opposite ends following installation instructions. *Overrun in the middle of the pipe should not exceed 3 feet.*

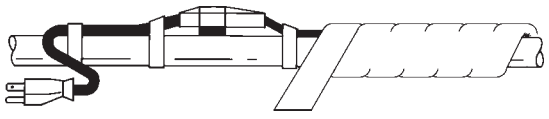
WARNING: The following nine points must be strictly adhered to. Failure to do so could cause overheating and result in serious fire hazard or electrical shock.

1. ***NEVER*** plug in the heating cable while it is coiled.
2. ***NEVER*** install so that external heat source(s) might overheat installation. Do not use heating cable on pipes heated above 155°F such as steam lines.
3. ***NEVER*** alter this heating cable in any way. If made shorter, it will overheat. Any attempt to physically alter the heating cable will void the warranty. Once cut, the heating cable *cannot* be repaired.
4. The thermostat and the entire heating cable must be in contact with the pipe.
5. ***NEVER*** use metal binding to secure heating cable to pipe.
6. Do not install the same cable on more than one pipe. This could cause the heating cable to overheat and may result in fire or electrical shock.
7. ***NEVER*** allow heating cable to touch, cross or overlap itself at any point. This will cause the heating cable to overheat and could result in fire or electrical shock.
8. ***NEVER*** install heating cable in walls, floors or ceiling.
9. Combustible material must not be within 1/2 inch (13 mm) of completed installation.

TOOLS REQUIRED

Scissors Tape measure File
Marking Pencil Eye protection

GENERAL INSTALLATION INSTRUCTIONS



Automatic Pipe Heating Cable on Metal Water Pipe (See "Special Notes for Plastic Pipes" below.)

WARNING: Always wear safety glasses during installation.

1. Read through the entire instruction sheet before you begin. Make sure you have selected the correct length of heating cable.
2. Before applying the heating cable, make sure that the area on and around the pipe is free and clear of sharp edges and combustible materials. Remove old heat tapes before proceeding and use the file to remove any sharp edges.
3. If heating cable is stiff (due to cold), first uncoil it and then plug it into a 120 volt outlet until it is warm and pliable before unplugging it and applying it to the pipe.
4. Make sure there is a properly grounded electrical receptacle close enough to plug in the cable. We strongly recommend the use of a GFCI protected circuit. Use on 120 volts only and be sure the electrical outlet is not overloaded. This heating cable will consume five amps or less of electricity. If an extension cord is necessary, use only a properly sized, grounded, CSA/UL Certified cord suitable for outdoor service.
5. The thermostat (the black cap in the orange block) must be placed tightly against the pipe and secured with electrical tape. The thermostat should be placed on the coldest end of the pipe. The thermostat will sense the temperature of the pipe and turn the cable on and off to provide economical operation.
6. Apply application tape or good quality electrical tape at six-inch intervals to secure the heating cable straight along the pipe.

WARNING: Always use application tape or a good quality electrical tape. Other adhesive tapes may allow the cable to move at normal cable operating temperatures and could result in over heating, fire or electrical shock.

7. Maximum 1/2-inch fiberglass insulation must be used over the heating cable for lower temperature protection. Insulation applied over the heating cable must also be applied over the thermostat. Insulation must be protected with an additional waterproof overwrap using opposite spiraling.

WARNING: We recommend the use of a ground fault circuit interrupter (GFCI) receptacle or cir-cuit breaker to reduce the danger of fire or electrical shock from a damaged or improperly installed heating cable. Electrical fault current caused by a damaged or improperly installed cable MAY NOT BE LARGE ENOUGH to trip a conventional circuit breaker . If you DO NOT know whether your electrical circuit is protected by a GFCI, ALWAYS consult an electrician.

NOTE: Many mobile home heat tape receptacles are NOT protected by a GFCI.

WARNING: ***NEVER*** use more than 1/2 inch of fiberglass or other non-flammable insulation made for pipe application. Over-insulation can cause the heating cable to overheat and cause serious fire hazard or electrical shock.

8. Before operating the heating cable, the installer should complete the record of purchase form.

SPECIAL NOTES FOR PLASTIC PIPE INSTALLATION

WARNING: NEVER install heating cable on plastic pipe unless pipe is filled with water at all times. NEVER spiral heating cable on pipes. Keep the heating cable straight along the pipe. In order to obtain even heat distribution, we recommend wrapping plastic pipes with aluminum foil before applying the heating cable.

MAINTENANCE

1. At the beginning of the heating season and monthly during operation, inspect the heating cable and its connection to the electric power source. Discontinue use and remove any unit that has been cut, damaged, immersed in water, shows any evidence of charring or cracking, or has deteriorated for any reason. Other conditions to look for are chewing by animals, debris thrown from lawnmower or any physical abuse. This cable does not contain any serviceable parts.
2. Heating cable may remain on the pipe year round, but we recommend always turning off or disconnecting the power at the end of the season (when air temperatures remain above 50°F). The thermostat turns the heating cable on when exposed to temperatures below 38°F. It will shut the heating cable off when the pipe has been heated to a temperature of approximately 45°F.

RECORD OF PURCHASE

MODEL NUMBER _____

DATE PURCHASED _____

PURCHASED FROM _____

INSTALLED BY _____

DATE INSTALLED _____

11001-118

LIMITED WARRANTY

This product is warranted to the original consumer purchaser that it will operate as intended for a period of one year from date of purchase. Any product or components that do not function may be returned with proof of purchase to

in USA
Heating Cable Warranty Dept.
31977 US 20 East
New Carlisle, Indiana 46552
or
in Canada
Heating Cable Warranty Dept.
440 Phillip Street
Waterloo, Ontario N2L 5R9

or to the point of purchase. Buyer is responsible for all costs incurred in removal and re-installation of the product, and must prepay shipment to factory or point of purchase. The product will be replaced at no charge and return shipping cost paid.

The warranty set forth above is exclusive and makes no other warranties with respect to description or quality of the product including, but without limitation, no warranties or merchantability or fitness for a particular purpose. The warranty set forth above does not extend to, and the manufacturer shall not be responsible for, incidental, consequential, special or indirect damages. The manufacturer shall not be liable for penalties or any liquidated damages.

The manufacturer shall not be liable for any injury or damage resulting from failure to follow and comply with the instructions that accompany the product.

Some states/provinces do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty is expressly in lieu of all other written or oral warranties. It gives you specific legal rights and you may have other rights which vary from state to state or province to province.

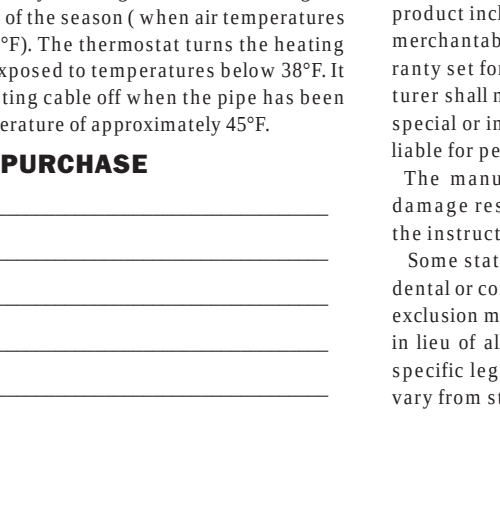
WARNING Plugging in a cable that is coiled or overlaps itself could cause overheating and result in electrocution or fire.

Your heating cable is equipped with a light in the plug. This light indicates that power is available to the cable. If this light is not on, check the power supply to the cable; it is possible that the breaker of GFCI is tripped.

To check if an installed heating cable will work in freezing conditions, complete the following steps:

1. Plug in the cable.
2. Remove the insulation from the thermostat area.
3. Wrap a bag of ice around the thermostat.
4. Wait about 20 minutes.
5. The cable should now feel warm to the touch.

HOW TO KNOW YOUR CABLE IS WORKING



This product will prevent water filled pipes from freezing. It can be used on **plastic** or **metal** supply pipes. Do **not** use on drain lines, fuel lines or hoses. The cable should **not** be buried or come in contact with the ground. Follow the selection chart carefully and do **not** oversize the cable. The cable should **not** be wrapped or spiraled and must be placed flat to the pipe using Easy Heat HCA or electrical tape rated for temperature. The entire installation should be wrapped with 1/2" fiberglass insulation. Follow the enclosed installation instructions closely.

Ce produit préviendra le gel des conduites remplies d'eau. Il peut être utilisé sur les conduites d'alimentation de **plastique** ou de **métal**. **Ne pas utiliser** sur les tuyaux d'écoulement, les tuyaux à gaz ou les tuyaux d'arrosage. Le cable **ne devrait pas** être enterré ou entré en contact avec le sol. Suivre le diagramme de sélection avec soin et **ne pas choisir** un cable trop long. Le cable **ne devrait pas** être enveloppé ou former une spirale et devrait être placé à plat contre le tuyaux en utilisant un Easy Heat HCA ou un ruban électrique conçu pour la température. L'installation entière devrait être envelop-pée avec de l'isolation de fibre de verre de 1/2". Suivre les instructions d'instal-lation ci-jointe soigneusement.

QUESTIONS
8AM–5PM EST M–F
(800) 562-6587