

PALADIN® FOR YOUR PIPES

Paladin® is an external heating cable that can be used for reliable pipe freeze protection. **Paladin®** can be used in a variety of applications including, drainage lines, sewage lines and copper pipes running under the cottage or cabin or where pipes may be exposed to cold ambient temperatures and wind chill. Traditional style heat tapes must be pitched or spiraled around the pipes in order to apply adequate amounts of heat. With **Paladin®**, the heating cable is simply applied onto the pipe in a single run; reducing overall length of product by as much as 60 percent. As **Paladin®** is wet location approved, it may also be used inside non-pressurized pipes such as drainage tiles and gutters.



EXT5R



EXT3T



EXT SERIES

The **EXT5R** and **EXT3T** systems are cCSAus approved for external pipe freeze protection. EXT3T series systems are excellent for harsh environments as they will not deteriorate when exposed to corrosive, organic or inorganic materials, which may be found in buildings such as barns and workshops.

THE HEAT-LINE® PRODUCT GROUP

- | | |
|--------------------|--|
| Heat-Line® | ArcticVent® |
| Retro-Line® | Kompensator® |
| Paladin® | EDGE-CUTTER® |
| CARAPACE® | EXT Series |
| Retro-DWS® | Commercial/
Industrial
self-regulating
heating cables |
| Retro-FM® | |
| Rizer-Line® | |

SPECIAL REQUIREMENTS

Since 1988 Heat-Line® has been specializing in freeze protection of all types. If you have a special application of any kind, give us a call. Special system designs are common to us. We manufacture many other innovative products not mentioned in this brochure.

Paladin® is a registered trademark of Heat-Line® Corporation.

Patented

For more information contact



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PALADIN® & EXT Series

by Heat-Line®

Paladin® and **EXT Series** are reliable external freeze protection systems designed for use on all metallic and non-metallic pipes. These systems employ the unique operating performance of self-regulating heating cable technology. This allows these systems to be easily adapted to a variety of applications including, cottages, homes, resorts and farms. Insulation and a thermostat can be added to further optimize energy efficiency.



SELF-REGULATING HEATING CABLES

The **Paladin®** and **EXT Series** systems employ the unique performance and operating characteristics of advanced self-regulating technology. The heating cable is built around a conductive polymer core, which automatically adjusts its heat output to match heat loss at every point throughout the system length.



INSULATION

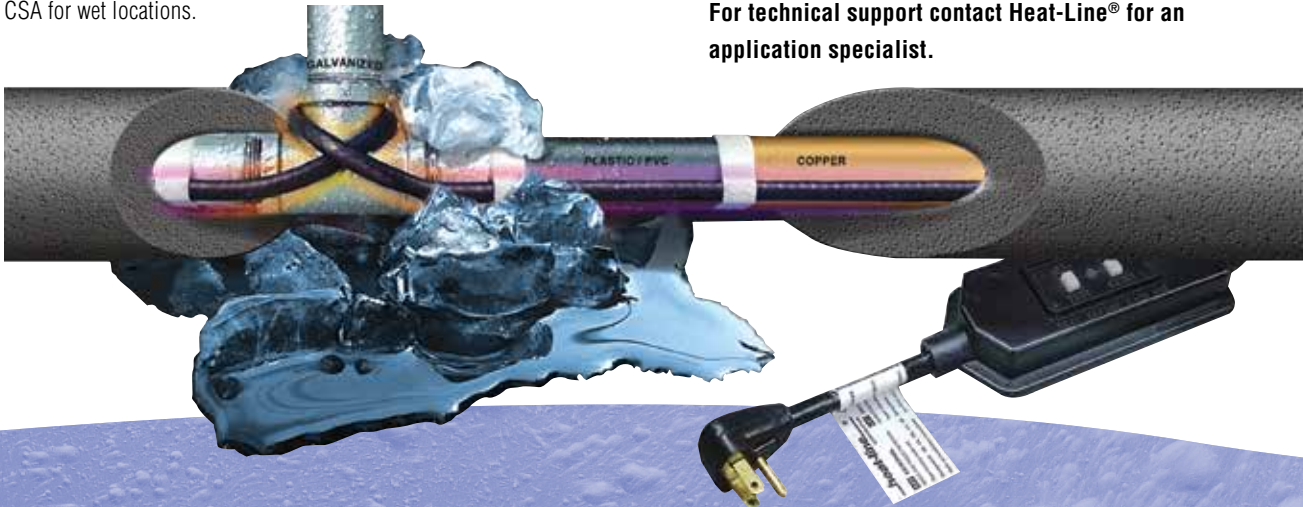
Heat-Line® products are designed to be used with thermal insulation to reduce heat loss and greatly improve energy efficiency. Insulation also gives us extreme cold weather protection capability. **Paladin®** and **EXT Series** products are plug-in, ready to use, self-regulating heating cable systems which increase or decrease their heat output in response to temperature, microscopically throughout their length. When we insulate the pipes to retain heat, the heat output is reduced and the energy savings increased.

THERMOSTATS

The use of thermostats as an additional control device is completely at the discretion of the installer and is based on the installation conditions or requirements. Thermostats are used to control ON/OFF operation of the heating cable and thus may increase your energy savings by as much as 80% when combined with insulation.

BOOT TECHNOLOGY

Paladin® and **EXT Series** systems are pressure sealed with an exclusive end seal technology that has been tested and approved by CSA for wet locations.



SPECIFICATIONS

Paladin®

- cCSAus approved (Canada and USA)
- 2E approval for roof and gutter applications
- 120 Volt systems - 5watt /ft. at 50°F max length of 120 ft.
- 240 Volt systems - 5watt/ft. at 50°F max length 240 ft.
- 27 milliamp ground fault circuit interrupter plug-in device

EXT5R

- cCSAus approved (Canada and USA)
- 120 Volt systems - 5watt /ft. at 50°F min length of 130 ft to a max length of 240 ft. (For shorter lengths see Paladin)
- 240 Volt systems - 5watt /ft. at 50°F min length of 130 ft to a max length of 540 ft. (Requires a GF240HLC from 470' to a max length of 540')
- 27 milliamp ground fault circuit interrupter plug-in device

EXT3T

- cCSAus approved (Canada and USA)
- 120 Volt systems - 3watt /ft. at 50°F max length of 250 ft.
- 240 Volt systems - 3watt/ft. at 50°F max length 550 ft.
- 27 milliamp ground fault circuit interrupter plug-in device

For complete installation instruction and specification refer to Paladin® and EXT Installation Guides. For technical support contact Heat-Line® for an application specialist.

PALADIN® & EXT SERIES AT A GLANCE

- cCSAus approved (Canada and USA)
 - 5 year limited warranty
 - Wet location and direct earth burial approved
 - Most reliable and energy efficient system on the market
 - Can be installed on all metallic and non-metallic pipes
 - Provides reliable freeze protection for many pipe diameters
 - Can be fully insulated to increase energy efficiency
 - Easily and quickly installed on most existing pipes without their removal
 - Will never melt or burnout the water pipe, even if the pipe is dry
 - Can be used with various control devices including timers and thermostats
 - Ground fault protection is integral to the system
 - Available as a plug-in ground fault protected model, or to be electrically connected to ground fault protected circuits
 - Industrial grade, Fluoropolymer jacket*
 - Cable is not damaged by organic or inorganic materials*
 - No other product combines these features or offers the reliability and flexibility
- * EXT3T Series cable only

