

## SELF-REGULATING HEATING CABLES

The Paladin and EXT Series systems employ the unique performance and operating characteristics of advanced self-regulating heating cable 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. As the temperature increases, Heat-Line products automatically decrease their heat output and vice versa. The result is energy savings.

## INSULATION

A thermally insulated pipe requires much less heat to protect and is not as susceptible to freezing. Heat-Line products are designed to be installed with thermal insulation to reduce heat loss and significantly improve energy efficiency. When the warmth generated by the heating cable system is captured by insulation, the energy consumed by the heating cable is vastly reduced.



## THERMOSTATS AND TIMERS

Thermostats and timers control the heating cable's ON/OFF operation, reducing the energy consumed by the device. This helps to reduce the amount of energy consumed and thus increases your energy savings by as much as 80% when combined with insulation.



## PALADIN®/EXT AT A GLANCE

- cCSAus certified for direct earth burial and wet location
- Installable inside both metallic and non-metallic gravity-fed drains, pipes and culverts to create an internal meltwater path
- Self-regulating heating cable
- 5 year warranty with optional 10 year extended
- Can be fully insulated to increase energy efficiency
- Thermostats and other control devices optional
- Will never melt or burn pipe, even if pipe is dry
- Installable on all pipe materials both metallic and non-metallic including PEX, ABS, Polyethylene, PVC, Copper, Steel, Iron and more
- Suitable for most pipe diameters when properly insulated

## 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.



1-800-584-4944

1095 Green Lake Rd, Algonquin Highlands  
ON Canada K0M 1S0

P 705-754-4545 F 705-754-4567

www.heatline.com • info@heatline.com

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## Paladin®/EXT

Job-Ready Heating Cable Systems For  
Use On Metallic and Non-Metallic Pipes



## ABOUT PALADIN®

Paladin is a cCSAus approved job-ready freeze protection system designed for installation on the outside of metallic and non-metallic pipes in indoor and outdoor applications. Paladin is certified for wet locations and direct earth burial, making it suitable to be installed inside non-pressurized, non-potable pipes such as drainage pipes. The Paladin system is easily adapted to various applications including cottages, homes, resorts, farms and commercial/industrial buildings.

- cCSAus approved (Canada and USA)
- Certified Usage W and S Canada
- Installation Type A USA
- Approved for wet locations and direct earth burial
- 120 V - 5 W/ft at 50°F, max. circuit length of 120 ft
- 240 V - 5 W/ft at 50°F, max. circuit length of 240 ft
- GFC model - 27 milliamp ground fault circuit interrupter plug-in device
- CS model - 14 AWG SJEOOW supply cord for direct hard wire

For longer length systems refer to EXT-R.



## ABOUT EXT SERIES

The EXT-R and EXT-T Series systems are cCSAus approved for external pipe freeze protection. Installed in similar applications to the Paladin, the EXT-R Series provides the added option of greater circuit lengths. In contrast, the EXT-T Series provides an advanced fluoropolymer outer heating cable jacket. The EXT-R and EXT-T Series also offer various output options not available in the Paladin. The EXT-T Series product is an excellent choice for harsh environments as it is compatible with select corrosive, organic or inorganic materials.

### EXT-R & EXT-T Series

- cCSAus approved (Canada and USA)
- Certified Usage W Canada
- Installation Type A USA
- Approved for wet locations and suitable for direct earth burial
- Available in 3 W/ft at 50°F, 5 W/ft at 50°F, and 8 W/ft at 50°F outputs
- 120 V - 3 W/ft at 50°F, max. circuit length of 270 ft
- 240 V - 3 W/ft at 50°F, max. circuit length of 550 ft
- 120 V - 5 W/ft at 50°F, max. circuit length of 230 ft
- 240 V - 5 W/ft at 50°F, max. circuit length of 460 ft
- 120 V - 8 W/ft at 50°F, max. circuit length of 150 ft
- 240 V - 8 W/ft at 50°F, max. circuit length of 300 ft
- 120 V GFC model - 4 ft supply cord with 27 milliamp ground fault circuit interrupter plug-in device
- 240 V GFC model - 6 ft supply cord with 27 milliamp ground fault circuit interrupter plug-in device
- CS model - 6 ft 14 AWG SJEOOW supply cord for direct hard wire

## INSTALLATION

Installed in a different fashion when compared to traditional style heat tape products, the Paladin and EXT Series systems are high-quality products that offer true flexibility during the installation. With Paladin and EXT Series systems, the heating cable is simply applied on the pipe in a single run in most applications, reducing the overall length of the product by as much as 60%. For extremely cold weather areas or pipe diameters greater than 2 inches, a dual trace installation may be required. For example, 100 ft of heating cable for a 50 ft long pipe.



## END SEAL TECHNOLOGY

Paladin and EXT Series systems are end-seal terminated with an exclusive and proprietary process developed by Heat-Line, certified by cCSAus for wet locations, and suitable for direct earth burial.



For more information refer to [www.heatline.com](http://www.heatline.com) or contact Heat-Line directly.