WARMZONE
PREMIER RADIANT HEATING

RoofHeat
Self-Regulating Heat Cable

Data Sheet

Pre-Terminated Self-Regulating Heat Cable GENERAL PRODUCT INFORMATION

Introduction

Warmzone pre-terminated self-regulating heat cable has proven to be the ideal, convenient solution for a variety of roof deicing applications as well as pipe freeze protection and process temperature maintenance. The versatile heat cable is extremely effective and energy efficient, making it the most popular solution for roof, gutter trace, downspout heating and pipe tracing applications.

The pre-terminated 120 V self-regulating heat cable is available in 50, 75, and 100-foot lengths. The pre-assembled 'plug and play' kits come with the option of a 6-foot standard or GFCI power plug.



Fig 1: ***Self-reg cable with and without GFCI plug***

Description

Given its self-regulating properties, when the ambient temperature rises, the electrical resistance of the self-regulating heat cable increases, so the consumption of electricity decreases, ensuring energy-efficient operation. This also prevents the cable from overheating or burning out – even when it is touching or overlapping.

Also, a thermostat may not be necessary in several types of applications because of the cable's self-regulating characteristics.

Applications

The UL listed, parallel heating cable is also capable of being used for a variety of industrial applications and environments, including hazardous, nonhazardous and corrosive environments. It can be used for roof and gutter heating applications as well as pipe freeze protection and process temperature maintenance.

Features Include

- Energy Efficient – Automatically varies its power output in response to temperature changes.
- Single point connection (pre-terminated).
- Easy to Install – Can be cut to any length required on site (up to max circuit length) so there's no wasted cable.
- Safe / Durable – Does not overheat or burn out, even when touching or overlapping. Suitable for use in non-hazardous, hazardous and corrosive environments.
- Versatile – Proven effective in a variety of roof deicing and pipe tracing applications.
- Easy Install – The termination, power connection, splice, tee and end seal kit reduces installation time and requires no special skills or tools.

Options

Power Plug: The pre-assembled kits come with the option of a 6-foot standard power plug or a plug with ground fault circuit interrupter (GFCI).

Copper Braid: Tinned copper braid provides additional mechanical protection and a positive ground path.

Flame Retardant Outer Jacket: Flame retardant thermoplastic outer jacket protects against certain inorganic chemical solutions. It also protects against abrasion and impact damage.

Corrosion Protection: The high temperature fluoropolymer outer jacket is used when there may be exposure to organic or corrosive solutions, or when vapors may be present.

With the optional outer jacket, the heating cable is resistant to watery and inorganic chemicals and protected against abrasion and impact damage.

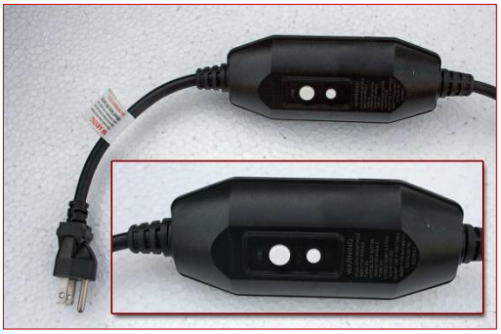


Fig 2: ***Self-reg cable with GFCI plug***

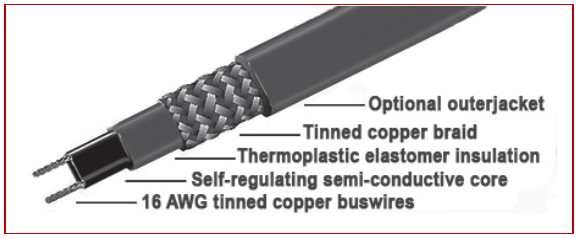


Fig 3: *Illustration of self-regulating heat cable*

Table I: Technical Data

Service Voltage	110-120, 220-277V
Maximum maintain or continuous exposure temperature (power on)	+149°F (65°C)
Maximum intermittent exposure temperature 1,000 hours (power on or off)	+185°F (85°C)
Minimum installation temperature	-40°F (-40°C)
Protective braid resistance	< 18.2Ω/km
Bus wire gauge	16AWG
Approvals	UL Listed; non-hazardous



Figure 4: *Self-regulating heat cables*

For more information visit:
www.warmzone.com or email us at sales@warmzone.com.

Call us toll free at **888.488.9276** to speak to one of our radiant heat experts today

Table II: Cable Accessories and Controls

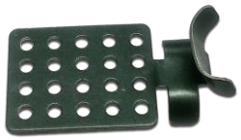
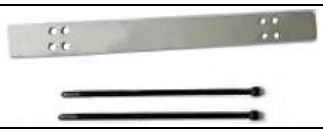
	Item Number	Description
	JSR14	50 Roof clips
	JSR15	Downspout Hanger Kit
	WS-8C	Aerial Mounted Snow Switch (30 amps) Moisture and temperature sensing Includes remote moisture sensor
	Outdoor temperature controlled outlet	Outdoor temperature sensor to maximize energy savings while having the smallest On/Off window available. Activates the heating cable only when conditions warrant.

Table III: Maximum Cable Length in Feet @ Circuit Breaker Size

Cable	Start-up Temp.	120 V				240 V			
Breaker Size		15 A	20 A	30 A	40 A	15 A	20 A	30 A	40 A
RHSRT-6-1 and RHSRT-6-2	50°F (+10°C)	230	270	270	270	460	540	540	540
	32°F (0°C)	230	270	270	270	460	540	540	540
	14°F (-10°C)	180	210	270	270	360	420	540	540
	0°F (-18°C)	140	190	270	270	285	380	540	540
	-20°F (-29°C)	125	165	250	270	250	330	500	540
	-40°F (-40°C)	110	145	220	270	220	295	440	540



Controls and Ground-Fault Protection

The self-regulating cable can operate safely without the use of thermostats or controls but use of thermostats or controls is recommended to improve energy efficiency.

National Electrical Codes require 30-mA equipment ground-fault protection on each heating cable branch circuit to reduce the danger of fire caused by continuous electrical arcing resulting from improper installation or damage to the heating cable. Conventional circuit protection may not be suitable for preventing electrical arcing.

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WARRANTY INFORMATION

Cable: 2-year limited warranty available when warranty requirements are followed.
Controls: 2-year limited warranty.

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