Advanced De-Icing Protection for Roofs, Gutters and Downspouts

EasyHeat™ Commercial Roof and Gutter De-Icing

Self-regulating electric heating cables and controls, specifically designed for commercial applications.

EMERSON™

Keep Your Facility Protected, Comfortable and Productive.

Prevent costly damage to roofs and buildings caused by snow and ice accumulation on roofs, gutters and downspouts.

As snow accumulates on a roof in winter, subsequent water melting and re-freezing results in ice accumulation along roof edges, in gutters and through the downspouts. Over time, the cycle of melt and re-freeze develops ice dams, retaining meltwater on the roof, or in the gutter, promoting migration of that water underneath the shingles or along the roof edge.

EasyHeat heating cable systems by Emerson are designed for both commercial and residential applications. For over 50 years, our EasyHeat brand has earned the trust and satisfaction of our customers with easy-to-install, reliable heating products. We combine the latest technology, superior materials, and relentless quality control, to provide the consistent, reliable performance you can depend on.

Our EasyHeat self-regulating roof and gutter de-icing products are engineered to protect properties from the damage caused by ice dam formation; economically and efficiently reducing ice accumulation along roof edges, in gutters, and downspouts, by providing a path for meltwater to flow freely, from the roof to the ground.

Benefits

EasyHeat commercial de-icing systems prevent ice dam build-up and costly damage to buildings caused by ice formation and snow accumulation in gutters, downspouts and roof valleys. The self-regulating design of our EasyHeat cables offer additional benefits:

- **Application Flexibility**
  EasyHeat self-regulating cables are generally suitable for use on asphalt or wood shingles; angled cedar, tile or terra cotta; metal roofing; or flat “membrane”-type roofing. Each cable is cut-to-length allowing for complete coverage on any roof design. Consult a roofing supplier for details.
- **Self-regulating Output**
  - Heat output automatically varies as the surrounding temperature changes; warmer temperatures = less cable heat = reduced power required
  - Optimum operating performance when combined with automated controls

Keeping Hot Water Flowing Through Your Pipes.

System Installation

Emerson offers the highest quality EasyHeat cables, controls and accessories for virtually every roof and gutter de-icing application.

Cut-to-length cable should be installed on roof areas where ice forms — along roof edges, in gutters, drains and downspouts — to provide a path for meltwater to flow off the roof. This can also include specific areas such as beneath skylights, in valleys or around dormers.

Two system control options are available: pre-set (GC-1) and programmable (MSC-1). The GC-1 control needs to be installed in an exterior location, while the MSC-1 needs to be installed inside a control room.

Roof and Gutter De-Icing.

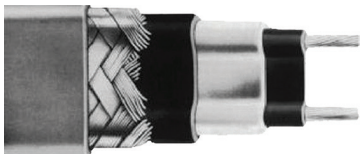
EasyHeat heating cables are engineered to protect commercial and residential properties from the damage caused by ice dam formations.

Heating Cables

EasyHeat electric heating cables are designed for efficient, cost-effective ice formation reduction along roof edges and in gutters, downspouts and drains by providing a path for meltwater to flow off the roof. Emerson offers the highest quality EasyHeat cables and control options for virtually every commercial roof and gutter de-icing application.

EasyHeat SR Trace Cable

EasyHeat RG Cable



A premium de-icing solution suitable for shingle, slate, metal, wood and flat roofs with either plastic or metal gutters and/or downspouts. The parallel-resistance cable automatically varies its heat output as the surrounding temperature changes.

- Installs in wet or dry environments.
- Available in cut-to-order lengths.
- All cable outer jackets are constructed of waterproof polyolefin material.
- Can be overlapped (wrapped over itself), minimizing the risk of damaging temperature-sensitive roof coating.
- Specifically-designed installation and connection kits available.

Product Feature	SR Trace Cable		RG Cable	
Nominal Power Output in Ice	SR51J	8 W/ft @ 120 Vac	RG1	12 W/ft @ 120 Vac
	SR52J	7 W/ft @ 208 Vac 8 W/ft @ 240 Vac 10 W/ft @ 277 Vac	RG2	9.5 W/ft @ 208 Vac 12 W/ft @ 240 Vac 15 W/ft @ 277 Vac
Max. Voltage	277 Vac		277 Vac	
Bus Wire Size	18 Gauge		16 Gauge	
Max. Single Cable Length	SR51J	191 ft	RG1	185 ft
	SR52J	381 ft	RG2	370 ft

Delivering the Heat That's Needed, When It's Needed.

Designed to sense both moisture and temperature, and specifically manufactured for use with EasyHeat heating cables.

Controls

Before activating the cables, EasyHeat roof and gutter de-icing controls are designed to sense the presence of both moisture and temperature, to determine if heat is actually required. These controls monitor both elements to make sure the system is on when it needs to be, while optimizing power consumption.

Pre-Set Configuration

Programmable Configuration

EasyHeat GC1 Controller

Designed to energize and apply power to the heating cable when moisture conditions exist, and the temperature is below +38 °F (+3 °C). For use with all EasyHeat SR Trace and RG Cable heating cables.

- Built-in temperature sensor, includes MSG1 Moisture Sensor.
- Voltage: 120, 208, 240 or 277 Vac.
- Current: 24 Amps maximum at 277 Vac.
- Operating temperature: -40 °F to +150 °F (-40 °C to +65 °C).
- One year limited warranty.

EasyHeat MSG1 Gutter Moisture Sensor

Working in conjunction with the MSC1 and GC1 controllers, the MSG1 sensor detects moisture on roofs and in gutters. An integrated sensor wire design detects roof moisture using a sensing grid on the bottom of the housing detects gutter moisture.

- The sensor operates on the low voltage supplied by the controller.
- Includes 10' (3 m) of wire for connection to the controller, as well as mounting hardware.
- Connection may be extended up to 500' (152.4 m) with an appropriately rated unshielded cable.
- Working temperature: -40 °F to +150 °F (-40 °C to +65 °C).

EasyHeat MSC1 Controller

A commercial-grade, multi-zone controller suitable for monitoring snow/ice accumulation in up to three different areas, by issuing separate signals to heating cables for de-icing in each of those zones.

- NEMA 4, 4X enclosure for commercial / industrial indoor applications.
- LCD display, programming and associated indicator lights, confirming the operation of each zone.
- TS1 temperature sensor included.
- Operating temperature: -4 °F to +160 °F (-20 °C to +70 °C).
- One year limited warranty.

Keep it Together.

Connection kits, specifically designed to bring power to EasyHeat self-regulating heating cable systems.

Connection Kits and Accessories

EasyHeat connection kits and accessories provide maximum versatility for installers by interfacing with common electrical and construction materials.

SRPCRG Power Connection Kit

For RG Cable Only

- Provides heat shrink tubing based power connection for one cable within customer supplied junction box.
- Provides one (1) heat shrinkable end seal.
- Includes cable seals for power connection and end terminations for a single heating cable.
- One year limited warranty.

SRES End Seal Kit

For SR Trace and RG Cables

- Provides heat shrink tubing based end seal for a heating cable circuit.
- Each connection kit contains five (5) end seals.
- One year limited warranty.

SRP Power / Splice Connection Kit

For SR Trace Cable Only

- Provides heat shrink tubing based power connection for one or two cables within customer supplied junction box.
- Provides two (2) heat shrinkable end seals.
- Allows for heating cable to heating cable splice using a customer supplied junction box.
- One year limited warranty.

Do the Job Right, the First Time.

EasyHeat accessories provide the right hardware to finish your self-regulating heating cable installation.

Accessories

EasyHeat self-regulating heating cables must be installed with appropriate connection kits. Emerson offers standard kits that contain the accessories needed to execute a successful de-icing system installation. Additional accessories are also available — the hardware you need, in the quantities required.

DSH Downspout Hanger

- Supports heating cable and maintains cable spacing where it enters and exits a downspout.
- Each connection kit contains two hangers.
- One year limited warranty.

ZH-C Roof Clips and Spacers

- Attaches heating cable to roof and also assists maintaining cable spacing in gutters and downspouts.
- Each connection kit has components for 50 roof clips or 25 cable spacers.
- One year limited warranty.

SRSRG In-Line Splice Kit

- Provides heat shrink tubing based materials necessary to perform a splice of two roof and gutter heating cables.
- Each connection kit contains one splice.
- One year limited warranty.

GFST1 Line Plug

- Plug in a power connection kit with ground fault circuit protection.
- Rated for 15 Amp circuit breaker at 120 Vac.
- This kit is only for SR Trace Cable.

ALT-1 Aluminum Heat Transfer Tape

- Used on plastic pipes to provide even heat distribution.
- For commercial and residential applications.
- One year limited warranty.

Heating cable solutions that protect commercial roofs and gutters from ice build-up.

EasyHeat is the cornerstone brand of Emerson's Electrical and Lighting business; trusted worldwide to make electrical installations safer, more productive and more reliable.

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