

## Self-Regulating Roof and Gutter De-Icing Heating Cable

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The IceStop system provides roof and gutter de-icing on roofs, in gutters, and in downspouts made from all types of standard roof/gutter materials, including metal, plastic, wood, shake/shingle, and tar.

The heating element in the IceStop heating cable consists of a continuous core of conductive polymer extruded between two copper bus wires. As current flows through the core, the IceStop heating cable regulates its own heat output in response to ambient conditions.

### High reliability

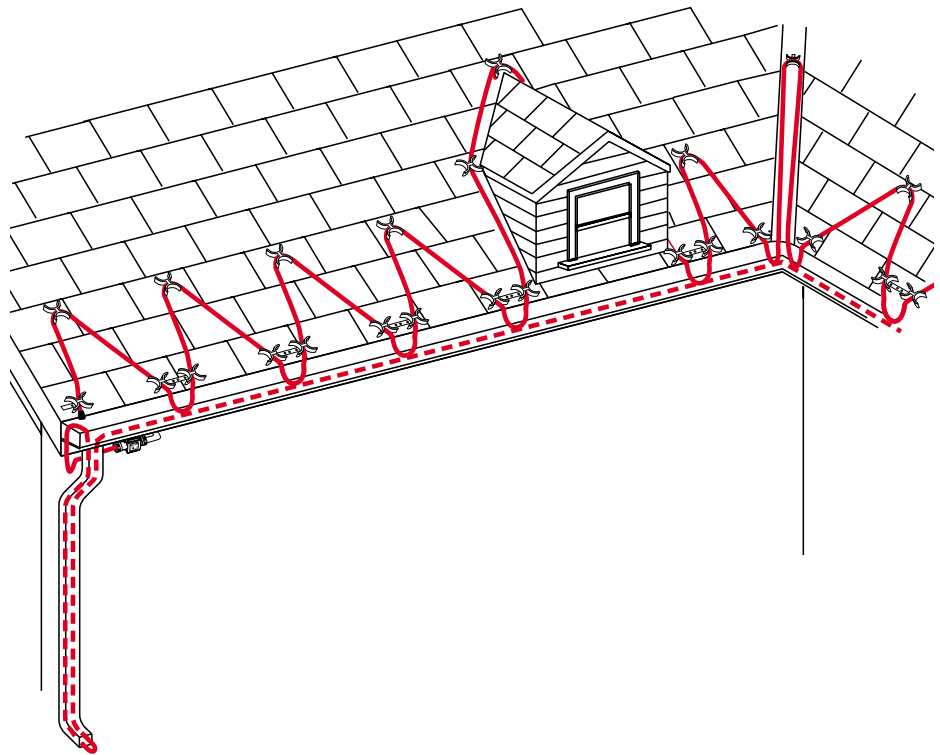
This self-regulating feature eliminates hot spots and results in better temperature control to protect roof and gutter materials and in exceptionally long cable life. More than 300 million feet of Raychem self-regulating heating cable has been installed worldwide since 1970.

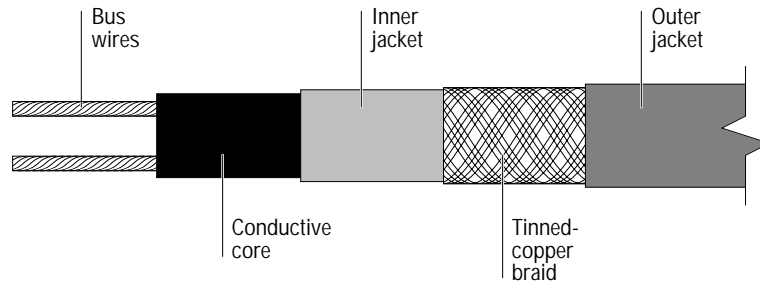
### Low installed cost

The IceStop heating cable's parallel circuitry allows it to be cut to the exact length required, with no wasted cable. All of these characteristics simplify and streamline the design of a roof and gutter de-icing system. Installation is quick and simple.

The same features that make an IceStop system easy to install the first time also simplify additions or changes to the system during building renovations.




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- Excellent performance
  - High reliability
  - Low installed cost
  - Low total operating cost





Catalog number	GM-1XT	GM-2XT				
Power output (nominal)	12 W/ft (39 W/m) in ice or snow	12 W/ft (39 W/m) in ice or snow				
Voltage	120 Vac	208–277 Vac				
Minimum installation temperature	0°F (–18°C)	0°F (–18°C)				
Minimum bend radius	5/8" (16 mm)	5/8" (16 mm)				
Maximum circuit length in feet (meters)		Start-up temperature	Circuit breaker size			
			15 A	20 A	30 A	40 A*
GM-1XT at 120 volts	32°F (0°C)	100 (30)	135 (41)	200 (61)	—	
	20°F (–7°C)	95 (29)	125 (38)	185 (56)	200 (61)*	
	0°F (–18°C)	80 (24)	100 (30)	155 (47)	200 (61)*	
GM-2XT at 208 volts	32°F (0°C)	190 (58)	250 (76)	380 (116)	—	
	20°F (–7°C)	180 (55)	235 (72)	355 (108)	380 (116)*	
	0°F (–18°C)	145 (44)	195 (59)	290 (88)	380 (116)*	
GM-2XT at 240 volts	32°F (0°C)	200 (61)	265 (81)	400 (122)	—	
	20°F (–7°C)	190 (58)	250 (76)	370 (113)	400 (122)*	
	0°F (–18°C)	155 (47)	205 (62)	305 (93)	400 (122)*	
GM-2XT at 277 volts	32°F (0°C)	215 (66)	290 (88)	415 (126)	—	
	20°F (–7°C)	200 (61)	265 (81)	400 (122)	415 (126)*	
	0°F (–18°C)	165 (50)	225 (69)	330 (101)	415 (126)*	

\* Only FTC-P Power Connection, FTC-HST Splice/Tee, and RayClic-E End Kits may be used with 40-amp circuits.

Components	Use only approved RayClic or FTC components to terminate IceStop heating cables. Refer to the IceStop Design and Installation Guide (H56070) for proper component selection.
Bus wires	16 AWG nickel-coated copper.
Braid/outer jacket	Tinned-copper braid with fluoropolymer outer jacket.
Dimension	Max width: .54" (14 mm) Max thickness: .24" (6 mm)
Nominal weight	92 lb/1000 ft (137 kg/1000 m)
Agency approvals	 877Z De-Icing and Snow Melting Equipment  DESIG. 2E  Ordinary and hazardous locations Class I, Div. 2, Groups A, B, C, D

The GM-1XT and GM-2XT heating cables are UL Listed, CSA Certified, and FM approved only when used with the appropriate agency-approved Raychem components and accessories.

Ground-fault protection	To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of Raychem and the 1996 National Electrical Code, ground-fault equipment protection must be used on each heating-cable branch circuit. Arcing may not be stopped by conventional circuit protection. Availability of 40-amp ground-fault circuit breakers may be limited. See the GFEPD Selection Guide (H55476) for information on different breakers. Square D and Westinghouse breakers are available through Raychem.
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