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## Self-regulating roof and gutter de-icing heating cable

Raychem IceStop is a roof and gutter de-icing system that provides drain paths for the following applications:

- Roofs made from standard roofing materials, including shake, shingle, rubber, tar, wood, metal, and plastic.
- Gutters made from standard materials, including metal, plastic, and wood.
- Downspouts made from standard materials, including metal and plastic.

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.

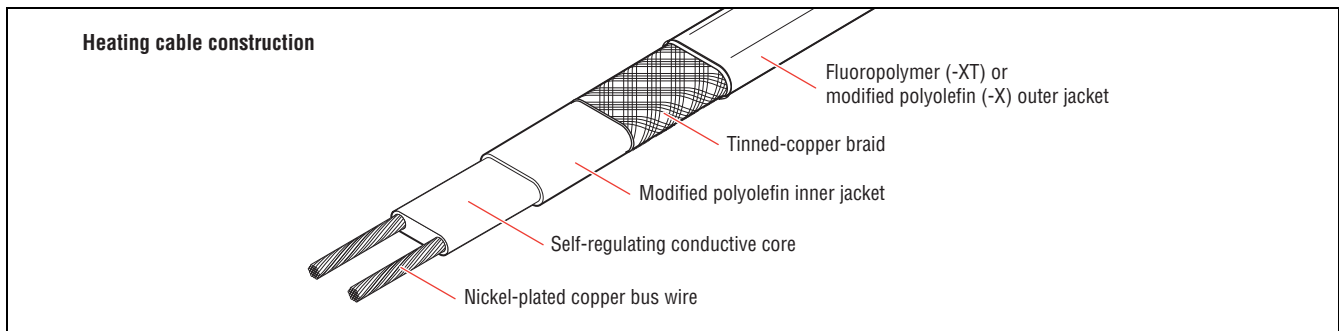
This self-regulating feature eliminates hot spots and results in better temperature control to protect roof and gutter materials.

The IceStop heating cable is available with a fluoropolymer outer jacket (-XT) that provides maximum abrasion, chemical, and mechanical resistance; or a polyolefin outer jacket (-X) that is more economical for less demanding applications.

### 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.



<b>Catalog Number</b>	GM-1XT and GM-1X	GM-2XT and GM-2X
<b>Power Output (nominal)</b>	12 W/ft (39 W/m) in ice or snow	12 W/ft (39 W/m) in ice or snow
<b>Voltage</b>	120 Vac	208–277 Vac
<b>Minimum Installation Temperature</b>	0°F (–18°C)	0°F (–18°C)
<b>Minimum Bend Radius</b>	5/8 in (16 mm)	5/8 in (16 mm)

**Maximum Circuit Length in Feet (Meters)**

	Start-up temperature	Circuit breaker size			
		15 A	20 A	30 A	40 A*
GM-1XT and GM-1X 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 and GM-2X 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 and GM-2X 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 and GM-2X 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 kits may be used with 40-A circuits.

**Bus Wires**

16 AWG nickel-plated copper

**Braid/Outer Jacket**

Tinned-copper braid with fluoropolymer (-XT) or modified polyolefin (-X) outer jacket

**Dimensions**

Maximum width	0.54 in (14 mm)
Maximum thickness	0.24 in (6 mm)

**Nominal Weight**

92 lb/1000 ft (137 kg/1000 m)

**Connection Kits**

Raychem RayClic or FTC connection kits must be used with IceStop heating cables. Refer to the *Roof and Gutter De-Icing Design Guide (H56070)* for proper connection kit selection.

**Approvals**

877Z De-icing and Snow-Melting Equipment



Nonhazardous and Hazardous Locations Class 1, Div. 2, Groups A, B, C, D\*  
\* For GM-1XT and GM-2XT

The IceStop heating cables are UL Listed, CSA Certified, and FM Approved only when used with the appropriate agency-approved Tyco Thermal Controls connection kits 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 Tyco Thermal Controls, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Many DigiTrace control and monitoring systems meet the ground-fault protection requirement.

**Worldwide Headquarters  
Tyco Thermal Controls**

7433 Harwin Drive  
Houston, TX 77036  
USA  
Tel: 800-545-6258  
Tel: 650-216-1526  
Fax: 800-527-5703  
Fax: 650-474-7711  
info@tycothermal.com  
[www.tycothermal.com](http://www.tycothermal.com)

**Canada  
Tyco Thermal Controls**

250 West St.  
Trenton, Ontario  
Canada K8V 5S2  
Tel: 800-545-6258  
Fax: 800-527-5703

**Europe, Middle East, Africa (EMEA)**

**Tyco Thermal Controls**  
Romeinse Straat 14  
3001 Leuven  
België / Belgique  
Tel: +32 16 213 511  
Fax: +32 16 213 603

**Latin America  
Tyco Thermal Controls**

7433 Harwin Drive  
Houston, TX 77036  
United States  
Tel: 713-868-4800  
Tel: 713-735-8645  
Fax: 713-868-2333

**Asia Pacific  
Tyco Thermal Controls**

20F, Innovation Building,  
1009 Yi Shan Rd,  
Shanghai 200233,  
P.R.China  
Tel: +86 21 2412 1688  
Fax: +86 21 5426 2937 / 5426 3167

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