



Visit www.tycothermal.com for more information on our ten-year extended warranty.

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.

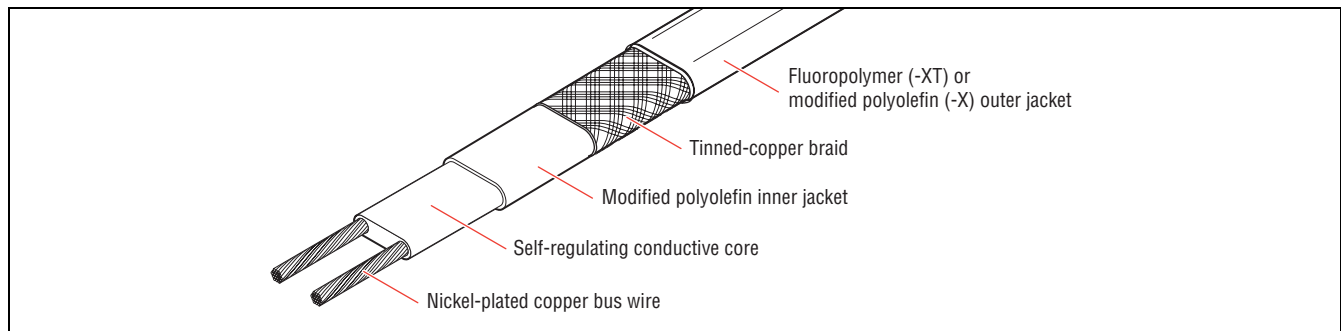
This self-regulating feature eliminates hot spots and results in better temperature control to protect roof and gutter materials.

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.



Catalog Number	GM-1XT and GM-1X	GM-2XT and GM-2X
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 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-amp 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 only in hazardous areas

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.

**Worldwide Headquarters
Tyco Thermal Controls**
307 Constitution Drive
Menlo Park, CA 94025-1164
USA
Tel: (800) 545-6258
Tel: (650) 216-1526
Fax: (800) 527-5703
Fax: (650) 474-7711
info@tycothermal.com
www.tycothermal.com

**Latin America
Tyco Thermal Controls**
Carlos Calvo 2560
(C1230AAP)
Buenos Aires, Argentina
Tel: (54 11) 4 308 6444
Fax: (54 11) 4 308 6445

**North Asia
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

**Canada
Tyco Thermal Controls**
250 West St.
Trenton, Ontario
Canada K8V 5S2
Tel: (800) 545-6258
Fax: (800) 527-5703

**Europe
Tyco Thermal Controls**
Romeinsestraat 14
3001 Leuven
België / Belgique
Tel: (32) 16/213 511
Fax: (32) 16/213 603

**South East Asia/Middle East
Tyco Thermal Controls India Pvt Ltd.**
A-26, Sector-63
Noida 201 307
Uttar Pradesh, India
Tel: +91-120-464-9500
Fax: +91-120-464-9548

Tyco and other trademarks are the property of Tyco Thermal Controls or its affiliates

tyco
Thermal Controls

Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Tyco Thermal Controls makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Thermal Controls' only obligations are those in the Tyco Thermal Controls Standard Terms and Conditions of Sale for this product, and in no case will Tyco Thermal Controls or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Tyco Thermal Controls reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.