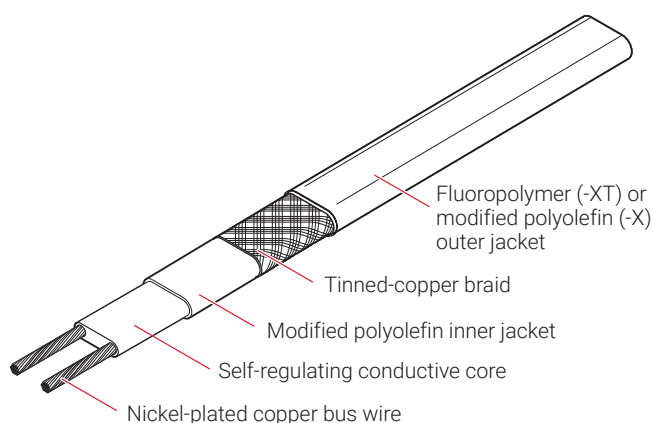


Self-regulating roof and gutter de-icing heating cable

PRODUCT OVERVIEW

Heating cable construction



nVent 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-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

nVent 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 nVent 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 nVent, 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 nVent RAYCHEM control and monitoring systems meet the ground-fault protection requirement.

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