

RGS™ Self-Regulating Heating Cable

Product Specifications

Application: Snow and Ice Melting

RGS self-regulating heating cables are part of the Thermon SnoTrace™ family of snow and ice melting systems. Designed and approved specifically for roof and gutter applications, RGS withstands direct exposure to harsh environmental conditions.

Due to its self-regulating feature, RGS cable will increase power when exposed to ice and snow. When the cable has cleared the area, the power output will decrease to reduce energy consumption.

Easy to Design and Install . . .

Layout of RGS cable for a roof and gutter snow and ice melting system is easy. The step-by-step design guide leads the reader through determining the heating requirements, selecting the cable spacing and establishing the number of heating circuits and accessories required to complete the SnoTrace RGS system. (For more information, refer to the SnoTrace RGS Design Guide, Form CPD1037.)

With cut-to-length parallel circuitry, RGS cables do not require field dimensions of the areas requiring protection.

The cable may be simply pulled from the supply reel, cut to length and terminated in the field with ordinary hand tools. Easy-to-use roof and gutter accessory materials, plus Thermon circuit fabrication kits, complete an installation.



Rugged and Reliable . . .

RGS self-regulating cables are protected by a tinned copper braid for grounding plus a heavy polyolefin outer jacket containing a UV inhibitor. These components maximize protection during cable installation and enable years of exposure to the elements.

RGS self-regulating cable is inspected along its entire length to verify performance. Backed by the first North American heat tracing manufacturer with ISO 9001 registration, RGS cables are designed and manufactured to meet the needs of the commercial construction industry.



THERMON . . . The Heat Tracing Specialists®

ISO 9001
REGISTERED

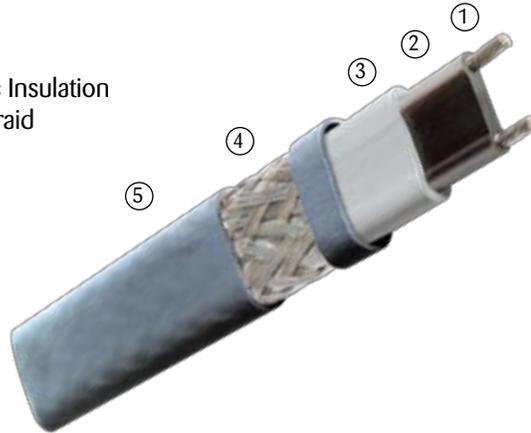
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Characteristics . . .

- 1 16 AWG Nickel-Plated Copper Bus Wire
- 2 Radiation Cross-Linked Polyolefin Heating Core
- 3 Radiation Cross-Linked Polyolefin Primary Dielectric Insulation
- 4 14 AWG (equivalent size) Tinned Copper Metallic Braid
- 5 Polyolefin Outer jacket



Ratings . . .

- 1.25" (32 mm) Minimum Bend Radius
- 30 mA Ground-Fault Protection Required¹
- 110-120 or 208-277 Vac Supply Voltage
- Nominal power output @ 32°F (0°C)
 - In snow and ice 12 W/ft (39 W/m)
 - In dry air 6 W/ft (20 W/m)

Cable Selection . . .

Catalog Number	Start-Up Temperature	Operating Voltage ²	Max. Circuit Length vs. Breaker Size ²			
			15 Amp	20 Amp	30 Amp	40 Amp
RGS-1	0°F (-18°C)	120 Vac	80' (24 m)	105' (32 m)	155' (47 m)	175' (53 m)
RGS-1	20°F (-7°C)	120 Vac	100' (30 m)	135' (41 m)	175' (53 m)	175' (53 m)
RGS-2	0°F (-18°C)	208 Vac	145' (44 m)	190' (58 m)	290' (88 m)	350' (107m)
RGS-2	20°F (-7°C)	208 Vac	185' (56 m)	245' (74 m)	350' (107 m)	350' (107m)
RGS-2	0°F (-18°C)	240 Vac	150' (45 m)	200' (61 m)	295' (90 m)	350' (107m)
RGS-2	20°F (-7°C)	240 Vac	190' (58 m)	250' (76 m)	350' (107 m)	350' (107m)
RGS-2	0°F (-18°C)	277 Vac	155' (47 m)	205' (62 m)	310' (95 m)	350' (107m)
RGS-2	20°F (-7°C)	277 Vac	195' (59 m)	255' (78 m)	350' (107 m)	350' (107m)

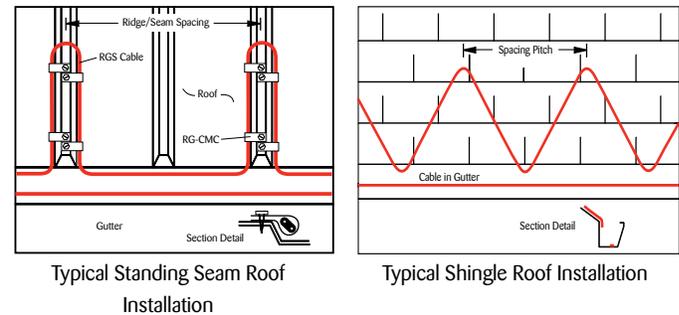
Note . . .

1. The National Electrical Code and the Canadian Electrical Code require ground-fault protection of equipment for each branch circuit supplying electric heating equipment
2. Circuit lengths are based on start-up temperatures shown. Refer to the SnoTrace RGS Design Guide, Form CPD1037, or contact Thermon for design assistance..

RGS Cables Meet or Exceed the Following Tests . . .

Test	Standard Followed
Abrasion Resistance	UL 1588 (8.3)
	IEEE 515.1 (4.3.4)
Cold Bend	IEEE 515.1 (4.2.10)
Deformation	IEEE 515.1 (4.2.8)
Dielectric Withstand	IEEE 515.1 (4.2.1)
Resistance to Impact	UL 1588 (8.2)
Resistance to Cutting	IEEE 515.1 (4.3.3)
Resistance to Crushing	UL 1588 (8.1)
Temperature	UL 1588 (9.1-9.3)
UV and Condensation	IEEE 515.1 (4.3.2)
Vertical Flame	UL 1588 (8.5)

Certifications/Approvals . . .



Components . . .

Thermon provides a full range of components for sealing and connecting these cables. Contact Thermon for full details.

Installation Instructions . . .

Detailed installation instructions Form No. CPD1020 are available on request.