TAD & ASSOCIATES, INC. heat tracing specialists

RG

ROOF & GUTTER SELF-REGULATING

Made in USA

Heat Trace

1. *16 AWG Buss Wires*
2. *Conductive Core*
3. *Polyolefin Jacket*
4. *Tinned Copper Braid*
5. *16 mil Overjacket*

Description

RG roof & gutter self-regulating heater cable regulates it's heat output throughout the entire length of the circuit in response to ambient temperature changes. The self-regulating core increases its heat output as the ambient temperature drops; and decreases its output as the temperature rises. RG roof & gutter heating cables are constructed of industrial grade materials and are intended for use in roof & gutter and pipe tracing applications. RG cables can maintain temperatures up to 150°F and have an intermittent exposure temperature of 185°F when energized. RG heating cables come in 8W and 10W/Ft. configurations for those areas that experience heavy snowfall and require additional heating to maintain proper roof drainage. RG8 has the ability to produce 13-14 W/Ft. in snow/ice conditions while RG10 has the ability to generate 14-17 W/Ft. The standard polyolefin overjacket protects the ground braid from impact & abrasion and has built-in UV inhibitors to prevent degradation of inuslating materials from continuous sun exposure. Due to their construction, RG heating cables will outlast economy/commercial grade roof & gutter cables up to 4X as long thereby reducing replacement costs. When combined with snow melting controllers, RG heating cables can save users up to 80% on utility costs. RG self-regulating heater cables can be cut to length in the field and will not overheat or burnout when overlapped.

Applications

RG self-regulating heater cables are ideal for roof & gutter de-icing and pipe-tracing. RG heating cables also provide freeze protection for fluid transport and storage systems.

Approvals

Factory Mutual:
Ordinary locations
Hazardous locations
- *Class 1 Div. 2 (Groups B, C, D)*
- *Class 2 Div. 2 (Groups F, G)*
- *Class 3 Div. 2*

CSA:
Ordinary locations 2E, 3(A, B, C), 5(A, B)
Hazardous locations
- *Class 1 Div. 2 (Groups A, B, C, D)*
- *Class 2 Div. 2 (Groups E, F, G)*
- *Class 3 Div. 2*

UL:
Roof & Gutter

Note: For heater cable applications refer to National Electric Code Article 427 Fixed electric heating for pipelines and vessels.

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Ordering Information

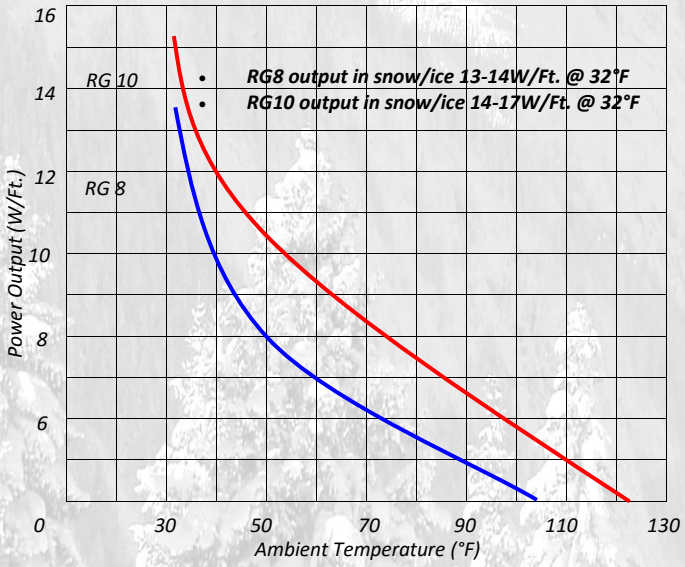
Example Configuration		RG81		
RG	Wattage	Voltage	Braid/Jacket	Weight/1,000'
	8, 10	1=120V	R= Rubber Jacket (Std.)	100 Lbs.
T Rating	T-6 (8 W) T-5 (10 W)	2=240V	T=Fluoropolymer Jacket*	90 Lbs.
T rating per 1999 NEC Table 500-5(d). 240 for use with 208V-277V. See Output @ Alternate Voltage chart below for true output.* Optional fluoropolymer jacket available upon request.				

Accessories

RGPK	Power Connection Kit
SCK-2	Power Termination Kit
SCK-2-E	Termination Kit with End Seal
RCK-1	Roof Clips (10/Pack)
RDK-1	Downspout Hanger
RSD 4.5	Snow/Moisture Sensor 35A
AIC-4	Snow-Melting Controller 16A
TF115	Ambient Sensing Thermostat
TRF115	Line Sensing Thermostat

Note: Not all accessories are listed. See catalog for additional listings.

Thermal Output Ratings



Output at Alternate Voltages

Typical Heaters	208 VAC	220 VAC	240 VAC	277 VAC
RG 82	7.28	7.66	8.00	8.80
RG 102	9.30	9.67	10.0	10.8

*To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with **National Electric Code (NEC) Article 427.22** requirements, agency certifications, and local codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Ground fault protection is the responsibility of the end user and should be installed by a certified electrician.*

Maximum Circuit Length vs. Breaker Sizing

Typical Heaters	50°F Start-Up (Ft.)				0°F Start-Up (Ft.)				-20°F Start-Up (Ft.)			
	15A	20A	30A	40A	15A	20A	30A	40A	15A	20A	30A	40A
RG 81	150	200	210	NR	95	125	190	210	85	100	170	210
RG 82	295	390	420	NR	195	250	375	420	170	225	340	420
RG 101	115	150	180	NR	70	95	145	180	60	85	120	165
RG 102	230	305	360	NR	150	200	300	360	130	175	260	360
NR= Not Required. Maximum circuit length has been achieved using smaller size breaker.												

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