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*Romans 10:11 For whosoever believes on Him shall not be ashamed.*

# RG

## ROOF & GUTTER SELF-REGULATING

Made in USA


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

Heat Trace

## DESCRIPTION

*RG roof & gutter self-regulating cable regulates it's output throughout the entire length of the circuit in response to ambient temperature changes. The self-regulating core increases its 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 insulating materials from continuous sun exposure. Due to their industrial grade construction, RG cables will outlast residential/commercial grade imports up to 5X as long, drastically reducing replacement costs and installation. When combined with snow melt controls, RG cables can save users up to 80% on utility costs compared to stand-alone installations. An additional 50-60% efficiency can be achieved using the Ice Cutter* system. RG cables, like all self-regulating cables, can be cut-to-length in the field and will not overheat or burnout when overlapped.*

## APPLICATIONS

*RG self-regulating heater cables are perfect for snow removal & de-icing of roofs, eaves, gutters, downspouts, troughs, drain baskets, hoppers, silos, aerials, parabolic dishes, pipe-tracing and much more. RG cables can be used in conjunction with the Ice Cutter system to reduce the amount of cable and energy needed and installs under the roofing material for an invisible and appealing look. *See Ice Cutter data sheet for more details.*

***Factory Mutual: (RG8, RG10 ONLY)***
*Ordinary locations*
*Hazardous locations*
- *Class 1 Div. 2 (Groups B, C, D)*
- *Class 2 Div. 2 (Groups F, G)*
- *Class 3 Div. 2*

***CSA: (RG8, RG10 ONLY)***
*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: (RG6 ONLY)***
*Roof & Gutter*

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

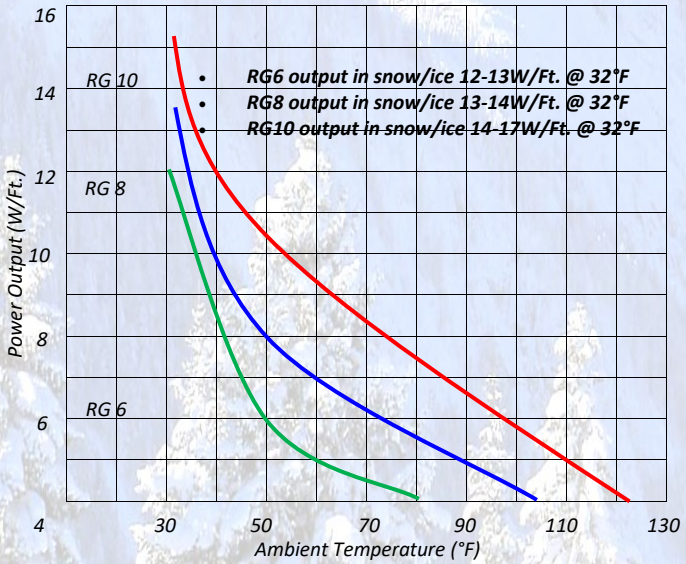
## ORDERING INFO

| Example Configuration | | RG82 | | | |
|---|---|---|---|---|---|
| RG | Wattage | Voltage | Jacket | Weight/1000' | Dimensions |
| | 6, 8, 10 | 1=120V | R= Rubber Jacket (Std.) | 94 Lbs. | .520"x.247" |
| T Rating | T-6 (6, 8 W) T-5 (10 W) | 2=240V | T=Fluoropolymer Jacket* | 100 Lbs. | .510"x.230" |

*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. ± 10% random lengths, 250' min. 900'-1032' typ.*

## ALT VOLTAGE OUTPUT

| Typical Heaters | 208 VAC | 220 VAC | 240 VAC | 277 VAC |
|---|---|---|---|---|
| **RG 62** | 5.16 | 5.53 | 6.00 | 6.96 |
| **RG 82** | 7.28 | 7.66 | 8.00 | 8.80 |
| **RG 102** | 9.30 | 9.67 | 10.0 | 10.8 |




## ACCESSORIES

| | |
|---|---|
| **RGPK** | Power Connection Kit |
| **SCK-2-E** | Termination Kit with End Seal |
| **RCK** | Roof Clips (10/Pack) |
| **RDK** | Downspout Hanger |
| **RSD4.5** | Snow/Moisture Sensor 35A |
| **AIC4.0** | Snow-Melting Controller 16A |
| **TF115** | Ambient Sensing Thermostat |
| **TRF115** | Line Sensing Thermostat |
| | |

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

*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.*

*It is highly recommended that all heat trace systems be connected to a control device to limit inrush potential and circuit breaker issues. Control devices also extend the life of all heat trace systems.*

## MAX CIRCUIT LENGTH

| 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 61** | 150 | 200 | 250 | 250 | 100 | 130 | 190 | 250 | 85 | 115 | 170 | 225 |
| **RG 62** | 270 | 360 | 450 | 450 | 175 | 230 | 340 | 450 | 145 | 190 | 285 | 385 |
| **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.*